ELSEVIER

Journal of Nuclear Materials 241–243 (1997) 1253–1276

journal of nuclear materials

Author index

Abel, G., see Stansfield, B.L. 241–243 (1997) 739
Abel, G., see Terreault, B. 241–243 (1997) 755
Abel, G., see Richard, N. 241–243 (1997) 760
Akiba, M., see Nakamura, K. 241–243 (1997) 1142
Akiba, M., see Nagatsu, M. 241–243 (1997) 1180
Akiba, M., see Linke, J. 241–243 (1997) 1210
Akiyama, R., see Sagara, A. 241–243 (1997) 972
Akiyama, R., see Morisaki, T. 241–243 (1997) 977
Ali-Arshad, S., see Lingertat, J. 241–243 (1997) 402
Ali Mahdavi, M., G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West, Stability of a radiative mantle in ITER 241–243 (1997) 305
Alimov, V., see Livshits, A. 241–243 (1997) 1203
Alimov, V.Kh., see Zakharov, A.P. 241–243 (1997) 52
Alimov, V.Kh., V.N. Chernikov and A.P. Zakharov, Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions 241–243 (1997) 1047
Alimov, V.Kh., see Franzen, P. 241–243 (1997) 1082
Alimov, V.Kh., see Wang, W. 241–243 (1997) 1087
Allen, A., see LaBombard, B. 241–243 (1997) 149
Allen, S., see Matthews, G.F. 241–243 (1997) 450
Allen, S.L., D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown, First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D 241–243 (1997) 595
Allen, S.L., see Jackson, G.L. 241–243 (1997) 618
Allen, S.L., see Lasnier, C.J. 241–243 (1997) 623
Allen, S.L., see Petrie, T.W. 241–243 (1997) 639
Allen, S.L., see Fenstermacher, M.E. 241–243 (1997) 666
Alper, B., see Lingertat, J. 241–243 (1997) 402
Amano, T., see Sugihara, M. 241–243 (1997) 299
Amarescu, E., see Skinner, C.H. 241–243 (1997) 214
Andrew, P., see Mayer, M. 241–243 (1997) 469
Annen, A., see Krieger, K. 241–243 (1997) 684
Anton, M., see Pitts, R.A. 241–243 (1997) 867
Antoni, V., see Sonato, P. 241–243 (1997) 982
Antonov, N.V., V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov, Experimental and calculated basis of the lithium capillary system as divertor material 241–243 (1997) 1190
Aoki, Y., see Yagyu, J. 241–243 (1997) 579
Aota, T., see Nakashima, Y. 241–243 (1997) 1011
Aoto, K., see Matsuoka, A. 241–243 (1997) 998
Arimoto, H., see Matsuoka, A. 241–243 (1997) 998
Asakura, N., see Matthews, G.F. 241–243 (1997) 450
Asakura, N., Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai, SOL plasma profiles under radiative and detached divertor conditions in JT-60U 241–243 (1997) 559
Asakura, N., see Takenaga, H. 241–243 (1997) 569
Asakura, N., see Higashijima, S. 241–243 (1997) 574
Ascione, G., see Skinner, C.H. 241–243 (1997) 214
ASDEX NI-Team, see Neu, R. 241–243 (1997) 678
ASDEX Upgrade team, see Bosch, H.-S. 241–243 (1997) 82
ASDEX Upgrade Team, see Neu, R. 241–243 (1997) 678
ASDEX Upgrade Team, see Krieger, K. 241–243 (1997) 684
ASDEX Upgrade Team, see Coster, D.P. 241–243 (1997) 690
ASDEX Upgrade Team, see Pitcher, C.S. 241–243 (1997) 696
ASDEX Upgrade Team, see Carlson, A. 241–243 (1997) 722
ASDEX Upgrade Team, see Krieger, K. 241–243 (1997) 734
Ashida, K., K. Watanabe and T. Okabe, Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating 241–243 (1997) 1060
Asmussen, K., see Neu, R. 241–243 (1997) 678
Asmussen, K., see Krieger, K. 241–243 (1997) 734
AUGD team, see Rohde, V. 241–243 (1997) 712
Awazu, M., see Masamune, S. 241–243 (1997) 1002
Axon, K.B., see Fielding, S.J. 241–243 (1997) 902

Bachmann, P., see Rohde, V. 241–243 (1997) 712
Bachmann, P., see Naujoks, D. 241–243 (1997) 925
Baelmans, M., see Kukushkin, A. 241–243 (1997) 268
Baelmans, M., see Reiter, D. 241–243 (1997) 342
Bagatin, M., see Sonato, P. 241–243 (1997) 982
Baker, D.R., R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson, Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak 241–243 (1997) 602
Baker, W.R., see Sonato, P. 241–243 (1997) 982

Balboni, J., S.A. Cohen and T. Munsat, Arc jets for divertor component testing 241–243 (1997) 483
Bandourko, V., K. Ohkoshi, K. Yamaguchi and M. Yamawaki, Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy 241–243 (1997) 1071
Barabash, V., see Burtseva, T. 241–243 (1997) 716
Barbier, G., G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier, Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment 241–243 (1997) 1036
Bardon, J., see Brosset, C. 241–243 (1997) 1093
Barnes, C.W., see Skinner, C.H. 241–243 (1997) 214
Basiuk, V., see Harris, J.H. 241–243 (1997) 511
Bastasz, R., W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong, Characterization of energetic deuterium striking the divertor of the DIII-D tokamak 241–243 (1997) 650
Bastasz, R., see Jackson, G.L. 241–243 (1997) 655
Bastasz, R., see Whyte, D.G. 241–243 (1997) 660
Batha, S.H., see Skinner, C.H. 241–243 (1997) 214
Batishchev, O.V., A.A. Batishcheva, P.J. Catto, S.I. Krasheninnikov, B. LaBombard, B. Lipschultz and D.J. Sigmar, Kinetic simulation of parallel transport and ELM propagation in the Alcator C-Mod tokamak 241–243 (1997) 374
Batishcheva, A.A., see Batishchev, O.V. 241–243 (1997) 374
Beaudry, S., see Stansfield, B.L. 241–243 (1997) 739
Beaumont, B., see Harris, J.H. 241–243 (1997) 511
Beaumont, B., see Gauthier, E. 241–243 (1997) 553
Becker, G., see Coster, D.P. 241–243 (1997) 690
Becoulet, A., see Harris, J.H. 241–243 (1997) 511
Becoulet, A., see Gauthier, E. 241–243 (1997) 553
Beer, M., see Skinner, C.H. 241–243 (1997) 214
Behn, R., see Pitts, R.A. 241–243 (1997) 867
Behrisch, R., see Mayer, M. 241–243 (1997) 469
Behrisch, R., see Burtseva, T. 241–243 (1997) 716
Belan, V., see Hassanein, A. 241–243 (1997) 288
Belan, V.G., see Antonov, N.V. 241–243 (1997) 1190
Bell, M.G., see Skinner, C.H. 241–243 (1997) 214
Bell, R., see Skinner, C.H. 241–243 (1997) 214
Bell, R.E., see Bush, C.E. 241–243 (1997) 892
Bennett, T.K., see Park, J. 241–243 (1997) 489
Bergsåker, H., D. Larsson, P. Brunsell, A. Möller and L. Tramontin, Wall conditioning and particle control in Extrap T2 241–243 (1997) 993
Bergsåker, H., see Emmoth, B. 241–243 (1997) 1022
Bergsåker, H., see Rubel, M. 241–243 (1997) 1026
Bessenrodt-Weberpals, M., see Neu, R. 241–243 (1997) 678
Besshou, S., see Kondo, K. 241–243 (1997) 956
Besshou, S., see Sano, F. 241–243 (1997) 961
Bibet, P., see Mailloux, J. 241–243 (1997) 745
Bieger, W., see Höthker, K. 241–243 (1997) 839
Bitter, M., see Skinner, C.H. 241–243 (1997) 214
Blanchard, W., see Skinner, C.H. 241–243 (1997) 214
Blanchard, W., see Mueller, D. 241–243 (1997) 897
Boedo, J., see Scholz, T. 241–243 (1997) 848
Boedo, J.A., see Mank, G. 241–243 (1997) 821
Boedo, J.A., T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank, N. Noda and TEXTOR team, Effects of an RF limiter on TEXTOR's edge plasmas 241–243 (1997) 857
Bohmeyer, W., see Grote, H. 241–243 (1997) 1152
Boivin, R., see Won, J. 241–243 (1997) 1110
Boivin, R.L., see LaBombard, B. 241–243 (1997) 149
Bolt, H., see Scholz, T. 241–243 (1997) 848
Bolt, H., see Linke, J. 241–243 (1997) 1210
Bolzonella, T., see Valisa, M. 241–243 (1997) 988
Bombarda, F., see LaBombard, B. 241–243 (1997) 149
Bombarda, F., see McCracken, G.M. 241–243 (1997) 777
Bombarda, F., see Granetz, R.S. 241–243 (1997) 788
Bonoli, P., see LaBombard, B. 241–243 (1997) 149
Booth, M.G., see Fielding, S.J. 241–243 (1997) 902
Börner, P., see Reiter, D. 241–243 (1997) 342
Borrass, K., D. Coster, D. Reiter and R. Schneider, Study of recombining gas targets 241–243 (1997) 250
Borrass, K., see Lingertat, J. 241–243 (1997) 402
Bosch, H.-S., D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer, M. Weinlich, ASDEX Upgrade team and NBI team, Particle exhaust in radiative divertor experiments 241–243 (1997) 82
Bosch, H.-S., see Coster, D.P. 241–243 (1997) 690
Bosch, H.S., see Schneider, R. 241–243 (1997) 701
Boucher, C., see Stansfield, B.L. 241–243 (1997) 739
Boucher, C., see Mailloux, J. 241–243 (1997) 745
Boucher, C., see Terreault, B. 241–243 (1997) 755
Boucher, D., see Sugihara, M. 241–243 (1997) 299
Bourgoin, D., G.G. Ross, S. Savoie, Y. Drolet and E. Haddad, Use of a quartz microbalance for plasma–wall interaction studies 241–243 (1997) 765
Braams, B.J., see Coster, D.P. 241–243 (1997) 690
Bracco, G., see Günther, K. 241–243 (1997) 462
Brakel, R., see Sardei, F. 241–243 (1997) 135
Brakel, R., see Hildebrandt, D. 241–243 (1997) 950
Breger, P., see Summers, D.D.R. 241–243 (1997) 391
Breger, P., see Erents, S.K. 241–243 (1997) 433
Breitbach, G., see Linke, J. 241–243 (1997) 1210
Bremond, S., see Harris, J.H. 241–243 (1997) 511
Bretz, N.L., see Skinner, C.H. 241–243 (1997) 214
Brix, M., see Höthker, K. 241–243 (1997) 839
Brooks, J.N., R. Causey, G. Federici and D.N. Ruzic, Assessment of erosion and surface tritium inventory issues for the ITER divertor 241–243 (1997) 294
Brooks, J.N., see Whyte, D.G. 241–243 (1997) 660
Brooks, N.H., see Jackson, G.L. 241–243 (1997) 618

Brooks, N.H., see Bastasz, R. 241–243 (1997) 650
Brooks, N.H., see Jackson, G.L. 241–243 (1997) 655
Brooks, N.H., see Fenstermacher, M.E. 241–243 (1997) 666
Brosset, C., J. Bardon and E. Gauthier, Interaction of a high density neon plasma with graphite 241–243 (1997) 1093
Brown, M., see Petrie, T.W. 241–243 (1997) 639
Brown, M.D., see Allen, S.L. 241–243 (1997) 595
Brunsell, P., see Bergsåker, H. 241–243 (1997) 993
Buchenauer, D.A., see Lasnier, C.J. 241–243 (1997) 623
Buchenauer, D.A., see Petrie, T.W. 241–243 (1997) 639
Buchenauer, D.A., see Watkins, J.G. 241–243 (1997) 645
Buchenauer, D.A., see Fenstermacher, M.E. 241–243 (1997) 666
Budny, R., see Skinner, C.H. 241–243 (1997) 214
Budny, R.V., see Bush, C.E. 241–243 (1997) 892
Burhenn, R., see Hildebrandt, D. 241–243 (1997) 950
Burrell, K.H., see Lasnier, C.J. 241–243 (1997) 623
Burtseva, T., V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann, Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade 241–243 (1997) 716
Bush, C.E., see Skinner, C.H. 241–243 (1997) 214
Bush, C.E., R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff, Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning 241–243 (1997) 892
Busnyuk, A., see Livshits, A. 241–243 (1997) 1203
Buttery, R.J., see Fielding, S.J. 241–243 (1997) 902

Camp, R., see Skinner, C.H. 241–243 (1997) 214
Campbell, D.J. and JET Team, Experimental comparison of carbon and beryllium as divertor target materials in JET 241–243 (1997) 379
Campbell, D.J., see Ehrenberg, J.K. 241–243 (1997) 420
Campbell, D.J., see Lowry, C.G. 241–243 (1997) 438
Campbell, D.J., see Saibene, G. 241–243 (1997) 476
Carlson, A., V. Rohde, M. Weinlich and ASDEX Upgrade Team, The separation of angle and size effects on Langmuir characteristics 241–243 (1997) 722
Carlson, A.W., see Pitcher, C.S. 241–243 (1997) 696
Carlstrom, T.N., see Allen, S.L. 241–243 (1997) 595
Carlstrom, T.N., see Petrie, T.W. 241–243 (1997) 639
Carlstrom, T.N., see Watkins, J.G. 241–243 (1997) 645
Carlstrom, T.N., see Fenstermacher, M.E. 241–243 (1997) 666
Carraro, L., see Valisa, M. 241–243 (1997) 988
Carter, M.D., see Harris, J.H. 241–243 (1997) 511
Casarotto, E., see Pospieszczyk, A. 241–243 (1997) 833
Casarotto, E., see Valisa, M. 241–243 (1997) 988
Casey, M., see Skinner, C.H. 241–243 (1997) 214
Casper, T.A., see Lasnier, C.J. 241–243 (1997) 623
Catto, P.J., see Helander, P. 241–243 (1997) 363
Catto, P.J., D.A. Knoll, S.I. Krasheninnikov and J.W. Connor, Divertor scaling laws for tokamaks 241–243 (1997) 369
Catto, P.J., see Batishchev, O.V. 241–243 (1997) 374
Causey, R., see Brooks, J.N. 241–243 (1997) 294
Causey, R.A., G.R. Longhurst and W. Harbin, Tritium retention in S-65 beryllium after 100 eV plasma exposure 241–243 (1997) 1041
Chang, Z., see Skinner, C.H. 241–243 (1997) 214
Chankin, A., see Monk, R.D. 241–243 (1997) 396
Chankin, A., see McCormick, G.K. 241–243 (1997) 444
Chankin, A.V., Classical drifts in the tokamak SOL and divertor: models and experiment 241–243 (1997) 199
Chappuis, P., see Guilhem, D. 241–243 (1997) 542
Chappuis, Ph. and The TORE-SUPRA team, Heat exhaust control with active cooling in Tore-Supra: towards steady state operation 241–243 (1997) 27
Chatelier, M., see Nygren, R. 241–243 (1997) 522
Chavan, R.F., see Pitts, R.A. 241–243 (1997) 867
Chen, L.Y., see Hong, W.Y. 241–243 (1997) 1234
Chernikov, V.N., see Alimov, V.Kh. 241–243 (1997) 1047
Chevarier, A., see Barbier, G. 241–243 (1997) 1036
Chevarier, N., see Barbier, G. 241–243 (1997) 1036
Chiba, A., see Yamaki, T. 241–243 (1997) 1132
Chiocchio, S., see Parker, R. 241–243 (1997) 1
Chiu, S., see Maingi, R. 241–243 (1997) 672
Chiu, S., see Terreault, B. 241–243 (1997) 755
Chiu, S., see Richard, N. 241–243 (1997) 760
Christensen, C., see LaBombard, B. 241–243 (1997) 149
Christou, C., see Kondo, K. 241–243 (1997) 956
Claassen, H.A., see Telesca, G. 241–243 (1997) 853
Clement, S., see Monk, R.D. 241–243 (1997) 396
Clement, S., see Lingertat, J. 241–243 (1997) 402
Clement, S., see McCormick, G.K. 241–243 (1997) 444
Coad, J.P., see Guo, H.Y. 241–243 (1997) 385
Coad, J.P., see Lingertat, J. 241–243 (1997) 402
Coad, J.P., M. Rubel and C.H. Wu, The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995 241–243 (1997) 408
Cohen, R., see Allen, S.L. 241–243 (1997) 595
Cohen, S.A., see Balboni, J. 241–243 (1997) 483
Cohen, S.A., see Park, J. 241–243 (1997) 489
Collins, J., see Skinner, C.H. 241–243 (1997) 214
Collins, J., see Mueller, D. 241–243 (1997) 897
Conn, R.W., see Boedo, J.A. 241–243 (1997) 857
Conn, R.W., see Won, J. 241–243 (1997) 1110
Connor, J.W., see Catto, P.J. 241–243 (1997) 369
Corrigan, G., see Vlases, G. 241–243 (1997) 310
Costa, S., see Valisa, M. 241–243 (1997) 988
Coster, D., see Bosch, H.-S. 241–243 (1997) 82
Coster, D., see Borrass, K. 241–243 (1997) 250
Coster, D., see Kukushkin, A. 241–243 (1997) 268
Coster, D., see Schneider, R. 241–243 (1997) 701
Coster, D., see Herre, G. 241–243 (1997) 941

Coster, D.P., R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, ASDEX Upgrade Team, B.J. Braams and D. Reiter, B2-Eirene modelling of ASDEX Upgrade 241–243 (1997) 690
Côté, A., see Mailloux, J. 241–243 (1997) 745
Côté, C., see Mailloux, J. 241–243 (1997) 745
Côté, C., see Terreault, B. 241–243 (1997) 755
Côté, J.-F., see Urquiaga Valdes, M. 241–243 (1997) 750
Cropper, M., see Skinner, C.H. 241–243 (1997) 214
Crotinger, J.A., see Rognlien, T.D. 241–243 (1997) 590
Cuiwen, L., see Peng, Z. 241–243 (1997) 1008
Cuixian, L., see Peng, Z. 241–243 (1997) 1008
Cuthbertson, J.W., see Lasnier, C.J. 241–243 (1997) 623
Cuthbertson, J.W., see Moyer, R.A. 241–243 (1997) 633
Cuthbertson, J.W., see Watkins, J.G. 241–243 (1997) 645
Cuthbertson, J.W., see Fenstermacher, M.E. 241–243 (1997) 666

Dairaku, M., see Nakamura, K. 241–243 (1997) 1142
Darrow, D.S., see Skinner, C.H. 241–243 (1997) 214
Das, J., see Sardei, F. 241–243 (1997) 135
Davies, S., see Lowry, C.G. 241–243 (1997) 438
Davies, S., see McCormick, G.K. 241–243 (1997) 444
Davies, S.J., see Guo, H.Y. 241–243 (1997) 385
Davies, S.J., see Monk, R.D. 241–243 (1997) 396
Davies, S.J., P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby, Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams 241–243 (1997) 426
Davies, S.J., see Erents, S.K. 241–243 (1997) 433
Davis, J.W. and A.A. Haasz, Impurity release from low-Z materials under light particle bombardment 241–243 (1997) 37
Davis, J.W., see Haasz, A.A. 241–243 (1997) 1076
Davis, J.W., see Mech, B.V. 241–243 (1997) 1147
Décoste, R., see Stansfield, B.L. 241–243 (1997) 739
de la Cal, E., see Gauthier, E. 241–243 (1997) 553
Demers, Y., see Mailloux, J. 241–243 (1997) 745
De Michelis, C., see Tokar', M.Z. 241–243 (1997) 528
Deng, B.Q., see Peng, L.L. 241–243 (1997) 883
Deschka, S., see Neu, R. 241–243 (1997) 678
Deschka, S., see Burtseva, T. 241–243 (1997) 716
Döbele, H.F., see Goehlich, A. 241–243 (1997) 1160
Doerner, R., see Won, J. 241–243 (1997) 1110
Doroshin, A., see Livshits, A. 241–243 (1997) 1203
Dose, V., see Zebisch, P. 241–243 (1997) 919
Dowling, J., see Fielding, S.J. 241–243 (1997) 902
Doyle, E.J., see Fenstermacher, M.E. 241–243 (1997) 666
Dreval, V.V., see Vershkov, V.A. 241–243 (1997) 873
Drolet, Y., see Bourgoin, D. 241–243 (1997) 765
Duong, H.H., see Skinner, C.H. 241–243 (1997) 214
Durst, R., see Skinner, C.H. 241–243 (1997) 214
Dutch, M.J., see Pitts, R.A. 241–243 (1997) 867
Duval, B.P., see Pitts, R.A. 241–243 (1997) 867
Duwe, R., see Scholz, T. 241–243 (1997) 848
Duwe, R., see Linke, J. 241–243 (1997) 1210
Dux, R., see Bosch, H.-S. 241–243 (1997) 82
Dux, R., see Neu, R. 241–243 (1997) 678
Dux, R., see Coster, D.P. 241–243 (1997) 690
Dux, R., see Wenzel, U. 241–243 (1997) 728

ECRH Team, see Hildebrandt, D. 241–243 (1997) 950
Eder, D.C., see Koniges, A.E. 241–243 (1997) 244
Efthimion, P.C., see Skinner, C.H. 241–243 (1997) 214
Ehrenberg, J., see McCormick, G.K. 241–243 (1997) 444
Ehrenberg, J.K., see Monk, R.D. 241–243 (1997) 396
Ehrenberg, J.K., D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp, Neutral particle retention in the JET MK I divertor 241–243 (1997) 420
Ehrenberg, J.K., see Reichle, R. 241–243 (1997) 456
Elder, J.D., see Stangeby, P.C. 241–243 (1997) 358
Elder, J.D., see Guo, H.Y. 241–243 (1997) 385
Elder, J.D., see Maggi, C.F. 241–243 (1997) 414
Elder, J.D., see Erents, S.K. 241–243 (1997) 433
Elder, J.D., see Stansfield, B.L. 241–243 (1997) 739
El Khakani, M.A., see Barbier, G. 241–243 (1997) 1036
Elsner, A., see Hildebrandt, D. 241–243 (1997) 950
Emmoth, B., see Wienhold, P. 241–243 (1997) 804
Emmoth, B., H. Bergsåker and L. Ilyinsky, In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma 241–243 (1997) 1022
Engelhardt, W., see Neu, R. 241–243 (1997) 678
England, A.C., see Komori, A. 241–243 (1997) 967
Erents, K., see Summers, D.D.R. 241–243 (1997) 391
Erents, S.K., see Davies, S.J. 241–243 (1997) 426
Erents, S.K., P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers, Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor 241–243 (1997) 433
Ernst, D., see Skinner, C.H. 241–243 (1997) 214
Esser, H.G., see Philipps, V. 241–243 (1997) 105
Esser, H.G., see Wienhold, P. 241–243 (1997) 804
Esser, H.G., see Kögler, U. 241–243 (1997) 816
Esser, H.G., see Mank, G. 241–243 (1997) 821
Esser, H.G., A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team, ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field 241–243 (1997) 861
Evans, T.E., A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee, Measurements of non-axisymmetric halo cur-

rents with and without 'killer' pellets during disruptions in the DIII-D tokamak 241–243 (1997) 606
Evans, T.E., see Jackson, G.L. 241–243 (1997) 618
Evans, T.E., see Leonard, A.W. 241–243 (1997) 628
Evans, T.E., see Moyer, R.A. 241–243 (1997) 633
Evans, T.E., see Petrie, T.W. 241–243 (1997) 639
Evans, T.E., see Fenstermacher, M.E. 241–243 (1997) 666
Evtihin, V.A., see Antonov, N.V. 241–243 (1997) 1190
Ezumi, N., S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park, Density threshold for plasma detachment in gas target 241–243 (1997) 349

Federici, G., see Parker, R. 241–243 (1997) 1
Federici, G., see Pacher, H.D. 241–243 (1997) 255
Federici, G., D. Holland, G. Janeschitz and C.H. Wu, The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER 241–243 (1997) 260
Federici, G., see Brooks, J.N. 241–243 (1997) 294
Feng, Y., see Sardei, F. 241–243 (1997) 135
Feng, Y., F. Sardei, J. Kisslinger and P. Grigull, A 3D Monte Carlo code for plasma transport in island divertors 241–243 (1997) 930
Feng, Y., see Grigull, P. 241–243 (1997) 935
Fenstermacher, M.E., see Allen, S.L. 241–243 (1997) 595
Fenstermacher, M.E., see Lasnier, C.J. 241–243 (1997) 623
Fenstermacher, M.E., see Petrie, T.W. 241–243 (1997) 639
Fenstermacher, M.E., R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte, Comprehensive 2D measurements of radiative divertor plasmas in DIII-D 241–243 (1997) 666
Féron, S. and P. Ghendrih, Temperature profiles in stochastic boundaries 241–243 (1997) 328
Ferron, J.R., see Jackson, G.L. 241–243 (1997) 618
Fiedler, S., see Hildebrandt, D. 241–243 (1997) 950
Fielding, S.J., K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic, ELM structure in the boundary plasma on COMPASS-D 241–243 (1997) 902
Finken, K.H., see Mank, G. 241–243 (1997) 821
Finken, K.H., see Scholz, T. 241–243 (1997) 848
Finken, K.H., see Boedo, J.A. 241–243 (1997) 857
Fiore, C., see LaBombard, B. 241–243 (1997) 149
Fisch, N., see Skinner, C.H. 241–243 (1997) 214
Fonck, R.J., see Skinner, C.H. 241–243 (1997) 214
Franke, S., see Pitts, R.A. 241–243 (1997) 867
Franz, P., see Telesca, G. 241–243 (1997) 853
Franzen, P., C. Garcia-Rosales, H. Plank and V.Kh. Alimov, Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material 241–243 (1997) 1082
Fredrickson, E., see Skinner, C.H. 241–243 (1997) 214
Freisinger, M., see Esser, H.G. 241–243 (1997) 861
Froissard, P., see Mailloux, J. 241–243 (1997) 745
Fu, G.Y., see Skinner, C.H. 241–243 (1997) 214
Fuchs, C., see Bosch, H.-S. 241–243 (1997) 82
Fuchs, C., see Coster, D.P. 241–243 (1997) 690
Fuchs, C., see Pitcher, C.S. 241–243 (1997) 696
Fuchs, Ch., see Wenzel, U. 241–243 (1997) 728
Fuchs, J.C., see Neu, R. 241–243 (1997) 678
Fuchs, T., see Grote, H. 241–243 (1997) 1152
Fuchs, V., see Mailloux, J. 241–243 (1997) 745
Fujii, T., see Kondoh, T. 241–243 (1997) 564
Fujine, M., see Tanabe, T. 241–243 (1997) 1164
Fujisawa, N., see Putvinski, S. 241–243 (1997) 316
Fujita, I., Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsuda and K. Kuroda, Thermal response for divertor mock-up using surface-modified CFC tile 241–243 (1997) 1185
Fujitsuka, K., see Masamune, S. 241–243 (1997) 1002
Fujiwara, M., see Komori, A. 241–243 (1997) 967
Funaba, H., see Kondo, K. 241–243 (1997) 956
Funaba, H., see Sano, F. 241–243 (1997) 961
Fundamenski, W., see Stangeby, P.C. 241–243 (1997) 358
Fundamenski, W., see Maggi, C.F. 241–243 (1997) 414
Fundamenski, W., see Davies, S.J. 241–243 (1997) 426
Furth, H.P., see Skinner, C.H. 241–243 (1997) 214
Furukane, U., see Oda, T. 241–243 (1997) 1238

Gaffert, J., see Neu, R. 241–243 (1997) 678
Gao, X., see Li, J. 241–243 (1997) 878
Garbet, P.-M., see Fenstermacher, M.E. 241–243 (1997) 666
García-Rosales, C., see Neu, R. 241–243 (1997) 678
García-Rosales, C., see Burtseva, T. 241–243 (1997) 716
García-Rosales, C., see Krieger, K. 241–243 (1997) 734
Garcia-Rosales, C., see Franzen, P. 241–243 (1997) 1082
Garnier, D., see LaBombard, B. 241–243 (1997) 149
Garnier, D.T., see Jackson, G.L. 241–243 (1997) 655
Garzotti, L., see Valisa, M. 241–243 (1997) 988
Gates, D., see Fielding, S.J. 241–243 (1997) 902
Gauthier, E., E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui, Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection 241–243 (1997) 553

Gauthier, E., see Brosset, C. 241–243 (1997) 1093
Gauvreau, J.-L., see Stansfield, B.L. 241–243 (1997) 739
Gauvreau, J.-L., see Richard, N. 241–243 (1997) 760
Geiger, J., see Sardei, F. 241–243 (1997) 135
Gentile, C.A., see Skinner, C.H. 241–243 (1997) 214
Ghendrih, P., see Féron, S. 241–243 (1997) 328
Ghendrih, Ph., see Sarazin, Y. 241–243 (1997) 322
Ghendrih, Ph., see Loarer, T. 241–243 (1997) 505
Ghendrih, Ph. and A. Grosman, Calculation of power deposition patterns on the ergodic divertor 241–243 (1997) 517
Ghendrih, Ph., see Grosman, A. 241–243 (1997) 532
Ghendrih, Ph., see Grisolia, C. 241–243 (1997) 538
Ghendrih, Ph., see Turlur, S. 241–243 (1997) 548
Giannella, R., see Maggi, C.F. 241–243 (1997) 414
Giannone, L., see Hildebrandt, D. 241–243 (1997) 950
Gibson, M., see Skinner, C.H. 241–243 (1997) 214
Gil, C., see Gauthier, E. 241–243 (1997) 553
Gilbert, J., see Skinner, C.H. 241–243 (1997) 214
Glazunov, G.P., E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima, On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning 241–243 (1997) 1052
Glebovsky, A., see Livshits, A. 241–243 (1997) 1203
Goeckner, M.J., see Park, J. 241–243 (1997) 489
Goehlich, A., N. Niemöller and H.F. Döbele, Angle resolved velocity distributions of sputtered medium Z atoms 241–243 (1997) 1160
Goetz, J., see Matthews, G.F. 241–243 (1997) 450
Goetz, J.A., see LaBombard, B. 241–243 (1997) 149
Goetz, J.A., see Lipschultz, B. 241–243 (1997) 771
Goetz, J.A., see McCracken, G.M. 241–243 (1997) 777
Goetz, J.A., see Granetz, R.S. 241–243 (1997) 788
Golovato, S., see LaBombard, B. 241–243 (1997) 149
Golubchikov, L.G., see Antonov, N.V. 241–243 (1997) 1190
Gong, X., see Li, J. 241–243 (1997) 878
Goniche, M., see Harris, J.H. 241–243 (1997) 511
Goniche, M., see Mailloux, J. 241–243 (1997) 745
Goppelt-Langer, P., see Yagyu, J. 241–243 (1997) 579
Görner, C., see Hildebrandt, D. 241–243 (1997) 950
Gorodetsky, A.E., see Zakharov, A.P. 241–243 (1997) 52
Gotoh, Y., see Yamaki, T. 241–243 (1997) 1132
Gottardi, N.A.C., see Reichle, R. 241–243 (1997) 456
Goulding, R.H., see Harris, J.H. 241–243 (1997) 511
Granata, G., see Pégourié, B. 241–243 (1997) 494
Granetz, R., see LaBombard, B. 241–243 (1997) 149
Granetz, R.S., see McCracken, G.M. 241–243 (1997) 777
Granetz, R.S., G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang, A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak 241–243 (1997) 788
Grashin, S.A., see Vershkov, V.A. 241–243 (1997) 873
Gray, D., see Scholz, T. 241–243 (1997) 848
Gray, D.S., see Boedo, J.A. 241–243 (1997) 857
Greenwald, M., see LaBombard, B. 241–243 (1997) 149
Greenwood, D.E., see Komori, A. 241–243 (1997) 967
Grek, B., see Skinner, C.H. 241–243 (1997) 214
Grigoriadi, I., see Livshits, A. 241–243 (1997) 1203
Grigull, P., see Sardei, F. 241–243 (1997) 135
Grigull, P., see Zebisch, P. 241–243 (1997) 919
Grigull, P., see Feng, Y. 241–243 (1997) 930
Grigull, P., D. Hildebrandt, F. Sardei, Y. Feng, G. Herre, A. Herrmann, J.V. Hofmann, J. Kisslinger, G. Kuehner, H. Niedermeyer, R. Schneider, H. Verbeek, F. Wagner, R. Wolf, X.D. Zhang, W7-AS-Team and NBI-Group, Experimental study on highly collisional edge plasmas in W7-AS island divertor configurations 241–243 (1997) 935
Grigull, P., see Herre, G. 241–243 (1997) 941
Grigull, P., see Hildebrandt, D. 241–243 (1997) 950
Grisham, L.R., see Skinner, C.H. 241–243 (1997) 214
Grisolia, C., see Loarer, T. 241–243 (1997) 505
Grisolia, C., Ph. Ghendrih, G. Martin and D. Van Houtte, Analysis of wall particle content with premagnetization plasmas 241–243 (1997) 538
Grisolia, C., see Gauthier, E. 241–243 (1997) 553
Grosman, A., see Owen, L.W. 241–243 (1997) 499
Grosman, A., see Loarer, T. 241–243 (1997) 505
Grosman, A., see Ghendrih, Ph. 241–243 (1997) 517
Grosman, A., see Tokar', M.Z. 241–243 (1997) 528
Grosman, A., Ph. Ghendrih, B. Meslin and D. Guilhem, Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules 241–243 (1997) 532
Grosman, A., see Turlur, S. 241–243 (1997) 548
Grosman, A., see Gauthier, E. 241–243 (1997) 553
Grote, H., W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink, Comparison of chemical sputtering yields for different graphites at high ion flux densities 241–243 (1997) 1152
Guilhem, D., see Harris, J.H. 241–243 (1997) 511
Guilhem, D., see Nygren, R. 241–243 (1997) 522
Guilhem, D., see Grosman, A. 241–243 (1997) 532
Guilhem, D., J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau, Long pulse operation with actively cooled limiters 241–243 (1997) 542
Guilhem, D., see Mailloux, J. 241–243 (1997) 745
Gunn, J., see Mailloux, J. 241–243 (1997) 745
Gunn, J., see Terreault, B. 241–243 (1997) 755
Gunn, J., see Richard, N. 241–243 (1997) 760
Gunn, J.P., see Stansfield, B.L. 241–243 (1997) 739
Günther, K., G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow, Behaviour of hydrogen in JET deuterium plasmas 241–243 (1997) 462
Guo, H., see Lowry, C.G. 241–243 (1997) 438
Guo, H., see Matthews, G.F. 241–243 (1997) 450

Guo, H.Y., J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso, Erosion/redeposition at the JET MkI divertor 241–243 (1997) 385
Guo, H.Y., see Monk, R.D. 241–243 (1997) 396
Guo, H.Y., see Erents, S.K. 241–243 (1997) 433
Gureev, V.M., see Guseva, M.I. 241–243 (1997) 1117
Guseva, M.I., S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Neumoin and V.G. Stoljarova, Investigation of beryllium self-sputtering 241–243 (1997) 1117

Haas, G., see Bosch, H.-S. 241–243 (1997) 82
Haas, G., see Maingi, R. 241–243 (1997) 672
Haasz, A.A., see Davis, J.W. 241–243 (1997) 37
Haasz, A.A. and J.W. Davis, Deuterium retention in beryllium, molybdenum and tungsten at high fluences 241–243 (1997) 1076
Haasz, A.A., see Mech, B.V. 241–243 (1997) 1147
Hacker, H., see Hildebrandt, D. 241–243 (1997) 950
Haddad, E., see Stansfield, B.L. 241–243 (1997) 739
Haddad, E., see Terreault, B. 241–243 (1997) 755
Haddad, E., see Richard, N. 241–243 (1997) 760
Haddad, E., see Bourgoin, D. 241–243 (1997) 765
Hamada, T., see Kondo, K. 241–243 (1997) 956
Hamada, T., see Sano, F. 241–243 (1997) 961
Hammett, G., see Skinner, C.H. 241–243 (1997) 214
Han, Y., see Li, J. 241–243 (1997) 878
Hanatani, K., see Sano, F. 241–243 (1997) 961
Hara, J., Y. Uesugi, Y. Miura and H. Kawashima, Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing 241–243 (1997) 338
Harbin, W., see Causey, R.A. 241–243 (1997) 1041
Harbour, P.J., see Ehrenberg, J.K. 241–243 (1997) 420
Harbour, P.J., see Lowry, C.G. 241–243 (1997) 438
Harris, J.H., T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen, Plasma-surface interactions with ICRF antennas and lower hybrid grills in Tore Supra 241–243 (1997) 511
Harris, J.H., see Mailloux, J. 241–243 (1997) 745
Hartfuß, H.J., see Hildebrandt, D. 241–243 (1997) 950
Harvey, R.W., see Fenstermacher, M.E. 241–243 (1997) 666
Hasegawa, Y., see Sagara, A. 241–243 (1997) 972
Hassanein, A., V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky, Modeling and simulation of melt-layer erosion during a plasma disruption 241–243 (1997) 288
Hassanein, A., see Scholz, T. 241–243 (1997) 848
Haste, G.R., see Harris, J.H. 241–243 (1997) 511
Hawryluk, R.J., see Skinner, C.H. 241–243 (1997) 214
Hazeltine, R.D., see Helander, P. 241–243 (1997) 363
Heinrich, O., see Sardei, F. 241–243 (1997) 135
Helander, P., S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov, Wall effects on electron dynamics in the SOL 241–243 (1997) 278
Helander, P., R.D. Hazeltine and P.J. Catto, Theory of ion transport in the tokamak SOL 241–243 (1997) 363
Hennes, M., see Vietzke, E. 241–243 (1997) 810
Hermann, A., see Krieger, K. 241–243 (1997) 734
Herre, G., see Sardei, F. 241–243 (1997) 135
Herre, G., see Grigull, P. 241–243 (1997) 935
Herre, G., R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigull and J. Kisslinger, A 2D approach to island divertor modelling for Wendelstein 7-AS 241–243 (1997) 941
Herre, G., see Hildebrandt, D. 241–243 (1997) 950
Herrero, V., see Tabarés, F.L. 241–243 (1997) 1228
Herrmann, A., see Bosch, H.-S. 241–243 (1997) 82
Herrmann, A., see Leonard, A.W. 241–243 (1997) 628
Herrmann, A., see Neu, R. 241–243 (1997) 678
Herrmann, A., see Pitcher, C.S. 241–243 (1997) 696
Herrmann, A., see Rohde, V. 241–243 (1997) 712
Herrmann, A., see Burtseva, T. 241–243 (1997) 716
Herrmann, A., see Wenzel, U. 241–243 (1997) 728
Herrmann, A., see Grigull, P. 241–243 (1997) 935
Herrmann, A., see Hildebrandt, D. 241–243 (1997) 950
Herrmann, H.W., see Skinner, C.H. 241–243 (1997) 214
Hess, W.R., see Tokar', M.Z. 241–243 (1997) 528
Higashijima, S., H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga, Study of carbon impurity generation by chemical sputtering in JT-60U 241–243 (1997) 574
Hildebrandt, D., see Sardei, F. 241–243 (1997) 135
Hildebrandt, D., see Grigull, P. 241–243 (1997) 935
Hildebrandt, D., R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller, R. Wolf, W7-AS Team, ECRH Team and NBI Team, Plasma response on impurity injection in W7-AS 241–243 (1997) 950
Hill, D.N., A review of ELMs in divertor tokamaks 241–243 (1997) 182
Hill, D.N., see Allen, S.L. 241–243 (1997) 595
Hill, D.N., see Lasnier, C.J. 241–243 (1997) 623
Hill, D.N., see Leonard, A.W. 241–243 (1997) 628
Hill, D.N., see Petrie, T.W. 241–243 (1997) 639
Hill, D.N., see Watkins, J.G. 241–243 (1997) 645
Hill, D.N., see Fenstermacher, M.E. 241–243 (1997) 666
Hill, K.W., see Skinner, C.H. 241–243 (1997) 214
Hill, K.W., see Bush, C.E. 241–243 (1997) 892

Hino, T., see Yamauchi, Y. 241–243 (1997) 1016
Hino, T., see Tsuzuki, K. 241–243 (1997) 1055
Hino, T., see Yanagihara, H. 241–243 (1997) 1098
Hino, T., see Fujita, I. 241–243 (1997) 1185
Hiratsuka, H., see Yagyu, J. 241–243 (1997) 579
Hirohata, Y., see Yamauchi, Y. 241–243 (1997) 1016
Hirohata, Y., see Yanagihara, H. 241–243 (1997) 1098
Hirohata, Y., see Fujita, I. 241–243 (1997) 1185
Hirsch, S., see Bosch, H.-S. 241–243 (1997) 82
Hirsch, St., see Wenzel, U. 241–243 (1997) 728
Hoang, T., see Guilhem, D. 241–243 (1997) 542
Hoffman, D.J., see Harris, J.H. 241–243 (1997) 511
Hofmann, F., see Pitts, R.A. 241–243 (1997) 867
Hofmann, J.V., see Sardei, F. 241–243 (1997) 135
Hofmann, J.V., see Grigull, P. 241–243 (1997) 935
Hofmann, J.V., see Hildebrandt, D. 241–243 (1997) 950
Hogan, J., Helium transport and exhaust experiments in tokamaks 241–243 (1997) 68
Hogan, J., see Guilhem, D. 241–243 (1997) 542
Hogan, J.T., see Harris, J.H. 241–243 (1997) 511
Hogan, J.T., R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade, Core/divertor/wall particle dynamics in the DIII-D tokamak 241–243 (1997) 612
Hogan, J.T., see Maingi, R. 241–243 (1997) 672
Holland, D., see Federici, G. 241–243 (1997) 260
Holtrop, K.L., see Jackson, G.L. 241–243 (1997) 655
Home Teams, see Parker, R. 241–243 (1997) 1
Hong, W.Y., E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian, The fluctuations and flow velocities measured with a Mach probe array on the HL-1M tokamak 241–243 (1997) 1234
Horne, S., see LaBombard, B. 241–243 (1997) 149
Horton, L.D., see Stangeby, P.C. 241–243 (1997) 358
Horton, L.D., see Guo, H.Y. 241–243 (1997) 385
Horton, L.D., see Maggi, C.F. 241–243 (1997) 414
Horton, L.D., see Ehrenberg, J.K. 241–243 (1997) 420
Horton, L.D., see Davies, S.J. 241–243 (1997) 426
Horton, L.D., see Erents, S.K. 241–243 (1997) 433
Horton, L.D., see Lowry, C.G. 241–243 (1997) 438
Horton, L.D., see Reichle, R. 241–243 (1997) 456
Horton, L.D., see Saibene, G. 241–243 (1997) 476
Hosea, J., see Skinner, C.H. 241–243 (1997) 214
Hosea, J., see Mueller, D. 241–243 (1997) 897
Hosogane, N., see Asakura, N. 241–243 (1997) 559
Hosogane, N., see Higashijima, S. 241–243 (1997) 574
Höthker, K., W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants, Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR 241–243 (1997) 839
Houlberg, W., see Bush, C.E. 241–243 (1997) 892
Hsieh, C.L., see Allen, S.L. 241–243 (1997) 595
Hubbard, A., see LaBombard, B. 241–243 (1997) 149
Hugill, J., see Maddison, G.P. 241–243 (1997) 353
Humphreys, D.A., see Evans, T.E. 241–243 (1997) 606
Hunt, C., see Fielding, S.J. 241–243 (1997) 902
Hutchinson, I., see LaBombard, B. 241–243 (1997) 149
Hutchinson, I.H., see Jablonski, D. 241–243 (1997) 782
Hutter, T., see Harris, J.H. 241–243 (1997) 511
Hutter, T., see Gauthier, E. 241–243 (1997) 553
Hutter, Th., see Hogan, J.T. 241–243 (1997) 612
Hyatt, A.W., see Evans, T.E. 241–243 (1997) 606
Hyatt, A.W., see Fenstermacher, M.E. 241–243 (1997) 666

Ichimura, M., see Nakashima, Y. 241–243 (1997) 1011
Ida, K., see Kondo, K. 241–243 (1997) 956
Ida, K., see Sagara, A. 241–243 (1997) 972
Idei, H., see Sagara, A. 241–243 (1997) 972
Idei, H., see Morisaki, T. 241–243 (1997) 977
Igitkhanov, Y., see Pacher, H.D. 241–243 (1997) 255
Igitkhanov, Y., see Sugihara, M. 241–243 (1997) 299
Iguchi, H., see Morisaki, T. 241–243 (1997) 977
Iida, M., see Masamune, S. 241–243 (1997) 1002
Iiyoshi, A., see Komori, A. 241–243 (1997) 967
Ilyinsky, L., see Emmoth, B. 241–243 (1997) 1022
Ingesson, L.C., see Reichle, R. 241–243 (1997) 456
Innocente, P., see Valisa, M. 241–243 (1997) 988
Inoue, N., see Komori, A. 241–243 (1997) 967
Inoue, N., see Sagara, A. 241–243 (1997) 972
Inoue, N., see Morisaki, T. 241–243 (1997) 977
Inoue, N., see Tsuzuki, K. 241–243 (1997) 1055
Inutake, M., see Nakashima, Y. 241–243 (1997) 1011
Irby, J., see LaBombard, B. 241–243 (1997) 149
Ishijima, T., see Nakashima, Y. 241–243 (1997) 1011
Isler, R.C., see Fenstermacher, M.E. 241–243 (1997) 666
Isobe, M., see Ito, Y. 241–243 (1997) 1122
Itami, K., see Asakura, N. 241–243 (1997) 559
Itami, K., see Higashijima, S. 241–243 (1997) 574
ITER Joint Central Team, see Parker, R. 241–243 (1997) 1
Ito, Y., N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa, Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma 241–243 (1997) 1122
Iwasaki, K., see Sagara, A. 241–243 (1997) 972

Jablonski, D., see LaBombard, B. 241–243 (1997) 149
Jablonski, D., see McCracken, G.M. 241–243 (1997) 777
Jablonski, D., B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby, Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak 241–243 (1997) 782
Jablonski, D., see Granetz, R.S. 241–243 (1997) 788
Jäckel, H.J., see Reichle, R. 241–243 (1997) 456
Jackson, G., see Fenstermacher, M.E. 241–243 (1997) 666
Jackson, G.L., see Baker, D.R. 241–243 (1997) 602
Jackson, G.L., G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte, Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges 241–243 (1997) 618

Jackson, G.L., E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West, Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning 241–243 (1997) 655
Jackson, G.L., see Maingi, R. 241–243 (1997) 672
Jacob, W., see Krieger, K. 241–243 (1997) 684
Jacquet, P., see Mailloux, J. 241–243 (1997) 745
Jakovets, A.N., see Vershkov, V.A. 241–243 (1997) 873
James, R.A., see Fenstermacher, M.E. 241–243 (1997) 666
Janeschitz, G., see Parker, R. 241–243 (1997) 1
Janeschitz, G., see Pacher, H.D. 241–243 (1997) 255
Janeschitz, G., see Federici, G. 241–243 (1997) 260
Janeschitz, G., see Kukushkin, A. 241–243 (1997) 268
Janeschitz, G., see Sugihara, M. 241–243 (1997) 299
Janos, A., see Skinner, C.H. 241–243 (1997) 214
Jassby, D.L., see Skinner, C.H. 241–243 (1997) 214
Jernigan, T.C., see Evans, T.E. 241–243 (1997) 606
JET Team, see Campbell, D.J. 241–243 (1997) 379
Jiang, J.G., see Li, J. 241–243 (1997) 878
Jie, L., see Peng, Z. 241–243 (1997) 1008
Jieping, L., see Peng, Z. 241–243 (1997) 1008
Jimbou, R., see Yamaki, T. 241–243 (1997) 1132
Jimbou, R., K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya, Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour 241–243 (1997) 1175
Jobes, F.C., see Skinner, C.H. 241–243 (1997) 214
Joffrin, E., see Turlur, S. 241–243 (1997) 548
Johnson, D.W., see Skinner, C.H. 241–243 (1997) 214
Johnson, L.C., see Skinner, C.H. 241–243 (1997) 214
Jong, R., see Fenstermacher, M.E. 241–243 (1997) 666
Jong, R.A., see Lasnier, C.J. 241–243 (1997) 623
Jong, R.A., see Petrie, T.W. 241–243 (1997) 639
Joye, B., see Pitts, R.A. 241–243 (1997) 867
Jun, X., see Peng, Z. 241–243 (1997) 1008
Junlin, L., see Peng, Z. 241–243 (1997) 1008

Kado, S., see Kondo, K. 241–243 (1997) 956
Kajikawa, H., see Matsuoka, A. 241–243 (1997) 998
Kalish, M., see Skinner, C.H. 241–243 (1997) 214
Kallenbach, A., see Bosch, H.-S. 241–243 (1997) 82
Kallenbach, A., see Matthews, G.F. 241–243 (1997) 450
Kallenbach, A., see Coster, D.P. 241–243 (1997) 690
Kallenbach, A., see Wenzel, U. 241–243 (1997) 728
Kameda, S., see Sato, K. 241–243 (1997) 333
Kamperschroer, J., see Skinner, C.H. 241–243 (1997) 214
Kamperschroer, J., see Skinner, C.H. 241–243 (1997) 887
Kamperschroer, J., see Mueller, D. 241–243 (1997) 897
Kanashenko, S.L., see Zakharov, A.P. 241–243 (1997) 52
Kanda, Y., see Kondo, K. 241–243 (1997) 956
Kappler, F., see Koniges, A.E. 241–243 (1997) 244
Karduck, P., see Wienhold, P. 241–243 (1997) 804
Kastelewicz, H., see Wenzel, U. 241–243 (1997) 728
Katsuta, T., see Takiyama, K. 241–243 (1997) 1222
Katsuta, T., see Oda, T. 241–243 (1997) 1238
Kaufmann, M., see Schneider, R. 241–243 (1997) 701
Kawai, Y., see Morisaki, T. 241–243 (1997) 977
Kawashima, H., see Hara, J. 241–243 (1997) 338
Kayano, H., see Tokunaga, K. 241–243 (1997) 1197
Kehua, L., see Peng, Z. 241–243 (1997) 1008
Kellman, A.G., see Rognlien, T.D. 241–243 (1997) 590
Kellman, A.G., see Evans, T.E. 241–243 (1997) 606
Kesner, J., see LaBombard, B. 241–243 (1997) 149
Khlopenkov, K.V., see Kondo, K. 241–243 (1997) 956
Khripunov, V.I., see Antonov, N.V. 241–243 (1997) 1190
Kimura, H., see Kondoh, T. 241–243 (1997) 564
Kinoshita, T., see Kondo, K. 241–243 (1997) 956
Kisslinger, J., see Sardei, F. 241–243 (1997) 135
Kisslinger, J., see Feng, Y. 241–243 (1997) 930
Kisslinger, J., see Grigull, P. 241–243 (1997) 935
Kisslinger, J., see Herre, G. 241–243 (1997) 941
Kisslinger, J., see Renner, H. 241–243 (1997) 946
Kitamura, M., see Satomi, N. 241–243 (1997) 1138
Kitsunai, Y., see Tokunaga, K. 241–243 (1997) 1197
Klepper, C.C., see Owen, L.W. 241–243 (1997) 499
Klepper, C.C., see Hogan, J.T. 241–243 (1997) 612
Klepper, C.C., see Fenstermacher, M.E. 241–243 (1997) 666
Klepper, C.C., see Maingi, R. 241–243 (1997) 672
Klepper, C.C., see Komori, A. 241–243 (1997) 967
Knauf, H., see Unterberg, B. 241–243 (1997) 793
Knoll, D.A., see Wising, F. 241–243 (1997) 273
Knoll, D.A., see Catto, P.J. 241–243 (1997) 369
Kobayashi, S., see Nakashima, Y. 241–243 (1997) 1011
Koch, R., see Esser, H.G. 241–243 (1997) 861
Kodama, K., see Jimbou, R. 241–243 (1997) 1175
Koegler, U., see Wada, M. 241–243 (1997) 799
Koenen, L., see Wada, M. 241–243 (1997) 799
Kögler, U., see Philipps, V. 241–243 (1997) 105
Kögler, U., F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold, Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges 241–243 (1997) 816
Kögler, U., see Pospieszczyk, A. 241–243 (1997) 833
Koide, Y., see Asakura, N. 241–243 (1997) 559
Kojima, M. and S. Takamura, Impurity generation for low energy range of ion bombardment and its transport in a plasma 241–243 (1997) 1248
Kokura, H., K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai, Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges 241–243 (1997) 1217
Komatsu, K., see Livshits, A. 241–243 (1997) 1203
Komori, A., N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Taka-

hashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson, Local island divertor experiments on CHS 241–243 (1997) 967
Komori, A., see Morisaki, T. 241–243 (1997) 977
Kondo, K., K. Ida, C. Christou, V.Y. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki, Behavior of pellet injected Li into Heliotron E plasmas 241–243 (1997) 956
Kondo, K., see Sano, F. 241–243 (1997) 961
Kondo, K., see Kokura, H. 241–243 (1997) 1217
Kondoh, T., Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani, Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U 241–243 (1997) 564
Könen, L., see Mank, G. 241–243 (1997) 821
König, R., see Günther, K. 241–243 (1997) 462
Koniges, A.E., D.C. Eder, H.A. Scott, H. Würz and F. Kappler, Side radiation damage from ablated vapor following an ITER-scale disruption 241–243 (1997) 244
Konkashbaev, I., see Hassanein, A. 241–243 (1997) 288
Konoshima, S., see Higashijima, S. 241–243 (1997) 574
Korjavin, V.M., see Antonov, N.V. 241–243 (1997) 1190
Kornejew, P., see Grote, H. 241–243 (1997) 1152
Korshunov, S.N., see Guseva, M.I. 241–243 (1997) 1117
Kotenko, V.G., see Glazunov, G.P. 241–243 (1997) 1052
Koyama, K., see Yamauchi, Y. 241–243 (1997) 1016
Krasheninnikov, S.I., see Wising, F. 241–243 (1997) 273
Krasheninnikov, S.I., see Helander, P. 241–243 (1997) 278
Krasheninnikov, S.I., A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar, Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination 241–243 (1997) 283
Krasheninnikov, S.I., see Catto, P.J. 241–243 (1997) 369
Krasheninnikov, S.I., see Batishchev, O.V. 241–243 (1997) 374
Krieger, K., J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team, Study of gross and net erosion in the ASDEX Upgrade divertor 241–243 (1997) 684
Krieger, K., see Neu, R. 241–243 (1997) 678
Krieger, K., V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team, Migration of tungsten eroded from divertor tiles in ASDEX Upgrade 241–243 (1997) 734
Kubo, H., see Takenaga, H. 241–243 (1997) 569
Kubo, H., see Higashijima, S. 241–243 (1997) 574
Kubo, S., see Komori, A. 241–243 (1997) 967
Kubo, S., see Sagara, A. 241–243 (1997) 972
Kubo, S., see Morisaki, T. 241–243 (1997) 977
Kubota, Y., see Fujita, I. 241–243 (1997) 1185
Kuehner, G., see Grigull, P. 241–243 (1997) 935
Kugel, H., see Skinner, C.H. 241–243 (1997) 214
Kühner, G., see Sardei, F. 241–243 (1997) 135
Kühner, G., see Hildebrandt, D. 241–243 (1997) 950
Kukushkin, A., H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider, 2D modelling of radiating divertor regime for ITER 241–243 (1997) 268
Kurimoto, Y., see Kondo, K. 241–243 (1997) 956
Kurishita, H., see Tokunaga, K. 241–243 (1997) 1197
Kuroda, K., see Fujita, I. 241–243 (1997) 1185
Kurz, C., see LaBombard, B. 241–243 (1997) 149
Kusakabe, S., see Oda, T. 241–243 (1997) 1238
Kusama, Y., see Kondoh, T. 241–243 (1997) 564
Kuus, H., see Gauthier, E. 241–243 (1997) 553
Kuzmicheva, N., see Helander, P. 241–243 (1997) 278

LaBombard, B., J.A. Goetz, I. Hutchinson, D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe, Experimental investigation of transport phenomena in the scrape-off layer and divertor 241–243 (1997) 149
LaBombard, B., see Wising, F. 241–243 (1997) 273
LaBombard, B., see Batishchev, O.V. 241–243 (1997) 374
LaBombard, B., see Lipschultz, B. 241–243 (1997) 771
LaBombard, B., see McCracken, G.M. 241–243 (1997) 777
LaBombard, B., see Jablonski, D. 241–243 (1997) 782
LaBombard, B., see Granetz, R.S. 241–243 (1997) 788
Lachambre, J.-L., see Stansfield, B.L. 241–243 (1997) 739
Lackner, K., see Schneider, R. 241–243 (1997) 701
Ladd, P., see Parker, R. 241–243 (1997) 1
Ladurelle, L., see Gauthier, E. 241–243 (1997) 553
LaMarche, P.H., see Skinner, C.H. 241–243 (1997) 214
LaMarche, P.H., see Mueller, D. 241–243 (1997) 897

Langford, J., see Skinner, C.H. 241–243 (1997) 214
Langish, S., see Skinner, C.H. 241–243 (1997) 214
Lao, L.L., see Lasnier, C.J. 241–243 (1997) 623
Larsson, D., see Wada, M. 241–243 (1997) 799
Larsson, D., see Bergsåker, H. 241–243 (1997) 993
Lasaar, H., see Tokar', M.Z. 241–243 (1997) 528
Lasnier, C.J., see Allen, S.L. 241–243 (1997) 595
Lasnier, C.J., R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins, Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges 241–243 (1997) 623
Lasnier, C.J., see Leonard, A.W. 241–243 (1997) 628
Lasnier, C.J., see Petrie, T.W. 241–243 (1997) 639
Lasnier, C.J., see Fenstermacher, M.E. 241–243 (1997) 666
Laux, M., see Rohde, V. 241–243 (1997) 712
Laux, M., see Wenzel, U. 241–243 (1997) 728
Lawson, K.D., see Maggi, C.F. 241–243 (1997) 414
Lazarus, E.A., see Lasnier, C.J. 241–243 (1997) 623
Lazarus, E.A., see Jackson, G.L. 241–243 (1997) 655
LeBlanc, B., see Skinner, C.H. 241–243 (1997) 214
LeBlanc, B., see Bush, C.E. 241–243 (1997) 892
Lee, D.K., see Komori, A. 241–243 (1997) 967
Lee, R.L., see Evans, T.E. 241–243 (1997) 606
Leigheb, M., V. Pericoli Ridolfini and R. Zagórski, SOL parameters and local transport in the FTU tokamak 241–243 (1997) 914
Leonard, A.W., see Allen, S.L. 241–243 (1997) 595
Leonard, A.W., see Jackson, G.L. 241–243 (1997) 618
Leonard, A.W., see Lasnier, C.J. 241–243 (1997) 623
Leonard, A.W., W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm, Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade 241–243 (1997) 628
Leonard, A.W., see Petrie, T.W. 241–243 (1997) 639
Leonard, A.W., see Fenstermacher, M.E. 241–243 (1997) 666
Levinton, F.M., see Skinner, C.H. 241–243 (1997) 214
Li, J., X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han, Effects of high Z probe on plasma behavior in HT-6M tokamak 241–243 (1997) 878
Li, X.L., see Guo, H.Y. 241–243 (1997) 385
Lindner, P., see Unterberg, B. 241–243 (1997) 793
Lingertat, J., see Guo, H.Y. 241–243 (1997) 385
Lingertat, J., see Monk, R.D. 241–243 (1997) 396
Lingertat, J., A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk, Studies of giant ELM interaction with the divertor target in JET 241–243 (1997) 402
Linke, J., M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura, Performance of beryllium, carbon, and tungsten under intense thermal fluxes 241–243 (1997) 1210
Lipa, M., see Guilhem, D. 241–243 (1997) 542
Lipschultz, B., see LaBombard, B. 241–243 (1997) 149
Lipschultz, B., see Wising, F. 241–243 (1997) 273
Lipschultz, B., see Batishchev, O.V. 241–243 (1997) 374
Lipschultz, B., see Matthews, G.F. 241–243 (1997) 450
Lipschultz, B., J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry, Modification and control of divertor detachment in Alcator C-Mod 241–243 (1997) 771
Lipschultz, B., see McCracken, G.M. 241–243 (1997) 777
Lipschultz, B., see Jablonski, D. 241–243 (1997) 782
Lipschultz, B., see Granetz, R.S. 241–243 (1997) 788
Lisgo, S., see McCracken, G.M. 241–243 (1997) 777
Lisgo, S., see Jablonski, D. 241–243 (1997) 782
Lister, J.B., see Pitts, R.A. 241–243 (1997) 867
Litaudon, X., see Harris, J.H. 241–243 (1997) 511
Litunovsky, V., see Hassanein, A. 241–243 (1997) 288
Liu, S., see Li, J. 241–243 (1997) 878
Livshits, A., N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu, Applications of superpermeable membranes in fusion: The flux density problem and experimental progress 241–243 (1997) 1203
Llobet, X., see Pitts, R.A. 241–243 (1997) 867
Lo, D., see LaBombard, B. 241–243 (1997) 149
Loarer, T., see Pégourié, B. 241–243 (1997) 494
Loarer, T., see Owen, L.W. 241–243 (1997) 499
Loarer, T., B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman, Particle balance modelling in ergodic divertor experiments on Tore Supra 241–243 (1997) 505
Loarer, T., see Nygren, R. 241–243 (1997) 522
Loarer, T., see Guilhem, D. 241–243 (1997) 542
Loarte, A., Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements 241–243 (1997) 118
Loarte, A., see Stangeby, P.C. 241–243 (1997) 358
Loarte, A., see Guo, H.Y. 241–243 (1997) 385
Loarte, A., see Monk, R.D. 241–243 (1997) 396
Loarte, A., see Maggi, C.F. 241–243 (1997) 414
Loarte, A., see Ehrenberg, J.K. 241–243 (1997) 420
Loarte, A., see Davies, S.J. 241–243 (1997) 426
Loarte, A., see Lowry, C.G. 241–243 (1997) 438
Loarte, A., see McCormick, G.K. 241–243 (1997) 444
Loarte, A., see Reichle, R. 241–243 (1997) 456
Loarte, A., see Saibene, G. 241–243 (1997) 476
Longhurst, G.R., see Causey, R.A. 241–243 (1997) 1041
Lowry, C.G., D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von

Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases, Divertor configuration studies on JET 241–243 (1997) 438
Luckhardt, S., see Won, J. 241–243 (1997) 1110
Lumma, D., see LaBombard, B. 241–243 (1997) 149
Luo, J.L., see Peng, L.L. 241–243 (1997) 883
Luo, L., see Li, J. 241–243 (1997) 878
Lutz, T., see Nygren, R. 241–243 (1997) 522
Lyon, J.F., see Komori, A. 241–243 (1997) 967
Lyssoivan, A., see Esser, H.G. 241–243 (1997) 861
Lyublinski, I.E., see Antonov, N.V. 241–243 (1997) 1190

Maas, A., see Maggi, C.F. 241–243 (1997) 414
Machuzak, J., see Skinner, C.H. 241–243 (1997) 214
Maddaluno, G., F. Pierdominici and M. Vittori, Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak 241–243 (1997) 908
Maddison, G.P., D. Reiter and J. Hugill, Modelling of plasma momentum transference to side-walls by neutral particles 241–243 (1997) 353
Maggi, C., see Lowry, C.G. 241–243 (1997) 438
Maggi, C.F., J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers, Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy 241–243 (1997) 414
Maggi, C.F., see Davies, S.J. 241–243 (1997) 426
Mahdavi, M.A., see Schaffer, M.J. 241–243 (1997) 585
Mahdavi, M.A., see Petrie, T.W. 241–243 (1997) 639
Mahdavi, M.A., see Fenstermacher, M.E. 241–243 (1997) 666
Mahdavi, M.A., see Maingi, R. 241–243 (1997) 672
Mai, H.H., see Terreault, B. 241–243 (1997) 755
Mai, H.H., see Richard, N. 241–243 (1997) 760
Mailloux, J., see Stansfield, B.L. 241–243 (1997) 739
Mailloux, J., Y. Demers, V. Fuchs, M. Goniche, P. Jacquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb, Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra 241–243 (1997) 745
Mailloux, J., see Terreault, B. 241–243 (1997) 755
Maingi, R., see Schaffer, M.J. 241–243 (1997) 585
Maingi, R., see Allen, S.L. 241–243 (1997) 595
Maingi, R., see Baker, D.R. 241–243 (1997) 602
Maingi, R., see Hogan, J.T. 241–243 (1997) 612
Maingi, R., see Jackson, G.L. 241–243 (1997) 618
Maingi, R., see Lasnier, C.J. 241–243 (1997) 623
Maingi, R., see Petrie, T.W. 241–243 (1997) 639
Maingi, R., see Fenstermacher, M.E. 241–243 (1997) 666
Maingi, R., B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper, Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks 241–243 (1997) 672
Majeski, R., see Skinner, C.H. 241–243 (1997) 214
Makhankov, A., see Linke, J. 241–243 (1997) 1210
Mandl, W., see Tokar', M.Z. 241–243 (1997) 528
Manikam, J., see Skinner, C.H. 241–243 (1997) 214
Mank, G., see Philipps, V. 241–243 (1997) 105
Mank, G., J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter, In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94 241–243 (1997) 821
Mank, G., see Boedo, J.A. 241–243 (1997) 857
Mansfield, D.K., see Skinner, C.H. 241–243 (1997) 214
Mansfield, D.K., see Bush, C.E. 241–243 (1997) 892
Marchand, R., see Stansfield, B.L. 241–243 (1997) 739
Markin, A.V., see Zakharov, A.P. 241–243 (1997) 52
Marmar, E., see LaBombard, B. 241–243 (1997) 149
Marmar, E.S., see Jackson, G.L. 241–243 (1997) 655
Martin, G., see Nygren, R. 241–243 (1997) 522
Martin, G., see Grisolia, C. 241–243 (1997) 538
Martin, Y., see Pitts, R.A. 241–243 (1997) 867
Martinenko, Yu.V., see Guseva, M.I. 241–243 (1997) 1117
Martini, S., see Valisa, M. 241–243 (1997) 988
Masamune, S., M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama, Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP 241–243 (1997) 1002
Mase, A., see Nakashima, Y. 241–243 (1997) 1011
Mast, F., see Neu, R. 241–243 (1997) 678
Mast, F., see Coster, D.P. 241–243 (1997) 690
Mast, F., see Wenzel, U. 241–243 (1997) 728
Masuzaki, S., see Komori, A. 241–243 (1997) 967
Masuzaki, S., see Morisaki, T. 241–243 (1997) 977
Matsuda, T., see Fujita, I. 241–243 (1997) 1185
Matsuoka, K., see Komori, A. 241–243 (1997) 967
Matsuoka, K., see Sagara, A. 241–243 (1997) 972
Matsuoka, K., see Morisaki, T. 241–243 (1997) 977
Matsuoka, A., H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato, Behavior of edge plasma in STP-3M reversed field pinch 241–243 (1997) 998
Matthews, G., see Lowry, C.G. 241–243 (1997) 438
Matthews, G.F., see Guo, H.Y. 241–243 (1997) 385
Matthews, G.F., see Monk, R.D. 241–243 (1997) 396
Matthews, G.F., see Davies, S.J. 241–243 (1997) 426
Matthews, G.F., see Erents, S.K. 241–243 (1997) 433
Matthews, G.F., S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B.

Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West, Scaling radiative plasmas to ITER 241–243 (1997) 450
Matthews, O.F., see Stangeby, P.C. 241–243 (1997) 358
May, Chr., see Reiter, D. 241–243 (1997) 342
May, M., see LaBombard, B. 241–243 (1997) 149
Mayer, M., R. Behrisch, P. Andrew and A.T. Peacock, Erosion at the vessel walls of JET 241–243 (1997) 469
Maynashev, V.S., see Antonov, N.V. 241–243 (1997) 1190
Mazul, I., see Burtseva, T. 241–243 (1997) 716
Mazurenko, A., see LaBombard, B. 241–243 (1997) 149
Mazzucato, E., see Skinner, C.H. 241–243 (1997) 214
Mazzucato, E., see Bush, C.E. 241–243 (1997) 892
McCormick, G.K., see Ehrenberg, J.K. 241–243 (1997) 420
McCormick, G.K., A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases, Deduction of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET 241–243 (1997) 444
McCormick, G.K., see Reichle, R. 241–243 (1997) 456
McCormick, K., see Matthews, G.F. 241–243 (1997) 450
McCracken, G., see Wising, F. 241–243 (1997) 273
McCracken, G.M., see LaBombard, B. 241–243 (1997) 149
McCracken, G.M., see Lipschultz, B. 241–243 (1997) 771
McCracken, G.M., R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang, Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak 241–243 (1997) 777
McCracken, G.M., see Jablonski, D. 241–243 (1997) 782
McCracken, G.M., see Granetz, R.S. 241–243 (1997) 788
McGuire, K.M., see Skinner, C.H. 241–243 (1997) 214
McKee, G., see Skinner, C.H. 241–243 (1997) 214
Meade, D.M., see Skinner, C.H. 241–243 (1997) 214
Mech, B.V., A.A. Haasz and J.W. Davis, Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact 241–243 (1997) 1147
Medley, S.S., see Skinner, C.H. 241–243 (1997) 214
Meo, F., see Stansfield, B.L. 241–243 (1997) 739
Meo, F., see Terreault, B. 241–243 (1997) 755
Mertens, P. and M. Silz, Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence 241–243 (1997) 842
Meslin, B., see Owen, L.W. 241–243 (1997) 499
Meslin, B., see Loarer, T. 241–243 (1997) 505
Meslin, B., see Grosman, A. 241–243 (1997) 532
Messiaen, A.M., see Telesca, G. 241–243 (1997) 853
Meyer, W.H., see Fenstermacher, M.E. 241–243 (1997) 666
Mika, R., see Skinner, C.H. 241–243 (1997) 214
Mikkelsen, D.R., see Skinner, C.H. 241–243 (1997) 214
Minami, T., see Komori, A. 241–243 (1997) 967
Minami, T., see Sagara, A. 241–243 (1997) 972
Minami, T., see Morisaki, T. 241–243 (1997) 977
Ming, H., see Peng, Z. 241–243 (1997) 1008
Mioduszewski, P., see Bush, C.E. 241–243 (1997) 892
Mioduszewski, P.K., see Owen, L.W. 241–243 (1997) 499
Mioduszewski, P.K., see Hogan, J.T. 241–243 (1997) 612
Mioduszewski, P.K., see Maingi, R. 241–243 (1997) 672
Mironov, Yu.K., see Glazunov, G.P. 241–243 (1997) 1052
Mitteau, R., see Guilhem, D. 241–243 (1997) 542
Miura, Y., see Hara, J. 241–243 (1997) 338
Miura, Y., see Tokunaga, K. 241–243 (1997) 1197
Miyo, Y., see Yagyu, J. 241–243 (1997) 579
Mizuno, K., see Takiyama, K. 241–243 (1997) 1222
Mizuuchi, T., see Kondo, K. 241–243 (1997) 956
Mizuuchi, T., see Sano, F. 241–243 (1997) 961
Mizuuchi, T., see Kokura, H. 241–243 (1997) 1217
Mochizuki, T., see Tsuzuki, K. 241–243 (1997) 1055
Mohanti, R., see Lowry, C.G. 241–243 (1997) 438
Möller, A., see Bergsåker, H. 241–243 (1997) 993
Monier-Garbet, P., Radiative edge layers in limiter tokamaks 241–243 (1997) 92
Monier-Garbet, P., see Schaffer, M.J. 241–243 (1997) 585
Monk, R., see Lingertat, J. 241–243 (1997) 402
Monk, R., see Lowry, C.G. 241–243 (1997) 438
Monk, R., see McCormick, G.K. 241–243 (1997) 444
Monk, R.D., see Stangeby, P.C. 241–243 (1997) 358
Monk, R.D., see Guo, H.Y. 241–243 (1997) 385
Monk, R.D., A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, G.F. Matthews, M.F. Stamp and P.C. Stangeby, Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges 241–243 (1997) 396
Monk, R.D., see Ehrenberg, J.K. 241–243 (1997) 420
Monk, R.D., see Davies, S.J. 241–243 (1997) 426
Monk, R.D., see Erents, S.K. 241–243 (1997) 433
Monk, R.D., see Saibene, G. 241–243 (1997) 476
Moreau, C., see Urquiaga Valdes, M. 241–243 (1997) 750
Moret, J.-M., see Pitts, R.A. 241–243 (1997) 867
Morgan, P.D., see Davies, S.J. 241–243 (1997) 426
Mori, S., see Ezumi, N. 241–243 (1997) 349
Morioka, A., see Kondoh, T. 241–243 (1997) 564
Morisaki, T., see Komori, A. 241–243 (1997) 967
Morisaki, T., see Sagara, A. 241–243 (1997) 972
Morisaki, T., A. Komori, R. Akiyama, H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima, Experimental study of edge plasma structure in various discharges on compact helical system 241–243 (1997) 977
Morita, K., see Tsuchiya, B. 241–243 (1997) 1065
Morita, K., see Jimbou, R. 241–243 (1997) 1175
Morita, S., see Komori, A. 241–243 (1997) 967
Morita, S., see Sagara, A. 241–243 (1997) 972

Morita, S., see Morisaki, T. 241–243 (1997) 977
Moriyama, S., see Kondoh, T. 241–243 (1997) 564
Motojima, O., see Komori, A. 241–243 (1997) 967
Motojima, O., see Sagara, A. 241–243 (1997) 972
Motojima, O., see Morisaki, T. 241–243 (1997) 977
Motojima, O., see Glazunov, G.P. 241–243 (1997) 1052
Motojima, O., see Tsuzuki, K. 241–243 (1997) 1055
Motojima, O., see Fujita, I. 241–243 (1997) 1185
Moyer, R.A., see Lasnier, C.J. 241–243 (1997) 623
Moyer, R.A., J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins, The role of turbulent transport in DIII-D edge and divertor plasmas 241–243 (1997) 633
Moyer, R.A., see Watkins, J.G. 241–243 (1997) 645
Moyer, R.A., see Fenstermacher, M.E. 241–243 (1997) 666
Mueller, D., see Skinner, C.H. 241–243 (1997) 214
Mueller, D., see Skinner, C.H. 241–243 (1997) 887
Mueller, D., W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner, Tritium removal from TFTR 241–243 (1997) 897
Munsat, T., see Balboni, J. 241–243 (1997) 483
Muroga, T., see Tokunaga, K. 241–243 (1997) 1197
Mynick, H.E., see Skinner, C.H. 241–243 (1997) 214

Nachtrieb, R., see LaBombard, B. 241–243 (1997) 149
Nagasaki, K., see Kondo, K. 241–243 (1997) 956
Nagasaki, K., see Sano, F. 241–243 (1997) 961
Nagashima, K., see Kondoh, T. 241–243 (1997) 564
Nagashima, K., see Takenaga, H. 241–243 (1997) 569
Nagata, A., see Matsuoka, A. 241–243 (1997) 998
Nagatsu, M., N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura, Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials 241–243 (1997) 1180
Nagy, A., see Skinner, C.H. 241–243 (1997) 214
Nagy, A., see Skinner, C.H. 241–243 (1997) 887
Nagy, A., see Mueller, D. 241–243 (1997) 897
Nakagawa, M., see Yamaki, T. 241–243 (1997) 1132
Nakagawa, M., see Jimbou, R. 241–243 (1997) 1175
Nakamura, K., M. Dairaku, M. Akiba and Y. Okumura, Sputtering experiments on B_4C doped CFC under high particle flux with low energy 241–243 (1997) 1142
Nakamura, K., see Tanabe, T. 241–243 (1997) 1164
Nakamura, K., see Nagatsu, M. 241–243 (1997) 1180
Nakano, N., see Ito, Y. 241–243 (1997) 1122
Nakashima, Y., M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano, Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas 241–243 (1997) 1011
Nakasuga, M., see Sano, F. 241–243 (1997) 961
Namba, S., see Oda, T. 241–243 (1997) 1238
Napiontek, B., see Wenzel, U. 241–243 (1997) 728
Naramoto, H., see Yagyu, J. 241–243 (1997) 579
Narihara, K., see Sagara, A. 241–243 (1997) 972
Nasarov, N.I., see Glazunov, G.P. 241–243 (1997) 1052
Natsir, M., see Tsuzuki, K. 241–243 (1997) 1055
Naujoks, D., J. Steinbrink, U. Wenzel and PSI-group, Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment 241–243 (1997) 707
Naujoks, D., P. Bachmann, A. Runov and D. Sünder, Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands 241–243 (1997) 925
Naujoks, D., see Hildebrandt, D. 241–243 (1997) 950
Navratil, G.A., see Jackson, G.L. 241–243 (1997) 655
Nazikian, R., see Skinner, C.H. 241–243 (1997) 214
NBI-Group, see Grigull, P. 241–243 (1997) 935
NBI Group, see Sardei, F. 241–243 (1997) 135
NBI Group, see Pitcher, C.S. 241–243 (1997) 696
NBI team, see Bosch, H.-S. 241–243 (1997) 82
NBI Team, see Hildebrandt, D. 241–243 (1997) 950
Nemoto, M., see Kondoh, T. 241–243 (1997) 564
Neu, R., see Noda, N. 241–243 (1997) 227
Neu, R., K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich, U. Wenzel, ASDEX Upgrade Team and ASDEX NI-Team, The tungsten experiment in ASDEX Upgrade 241–243 (1997) 678
Neu, R., see Krieger, K. 241–243 (1997) 734
Neuhauser, J., see Bosch, H.-S. 241–243 (1997) 82
Neuhauser, J., see Coster, D.P. 241–243 (1997) 690
Neuhauser, J., see Schneider, R. 241–243 (1997) 701
Neumoin, V.E., see Guseva, M.I. 241–243 (1997) 1117
Nevins, W., see Allen, S.L. 241–243 (1997) 595
Nguyen, F., see Harris, J.H. 241–243 (1997) 511
Nianman, Z., see Peng, Z. 241–243 (1997) 1008
Niedermeyer, H., see Sardei, F. 241–243 (1997) 135
Niedermeyer, H., see Grigull, P. 241–243 (1997) 935
Niemczewski, A., see LaBombard, B. 241–243 (1997) 149
Niemöller, N., see Goehlich, A. 241–243 (1997) 1160
Nieswand, Ch., see Pitts, R.A. 241–243 (1997) 867
Nikandrov, L., see Hassanein, A. 241–243 (1997) 288
Nilson, D., see Petrie, T.W. 241–243 (1997) 639
Nilson, D.G., see Allen, S.L. 241–243 (1997) 595
Nilson, D.G., see Fenstermacher, M.E. 241–243 (1997) 666
Nishikawa, M., see Ito, Y. 241–243 (1997) 1122
Nishikawa, M., see Satomi, N. 241–243 (1997) 1138
Nishimura, K., see Komori, A. 241–243 (1997) 967
Nishitani, T., see Kondoh, T. 241–243 (1997) 564
Noda, N., V. Philipps and R. Neu, A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices 241–243 (1997) 227
Noda, N., see Boedo, J.A. 241–243 (1997) 857
Noda, N., see Li, J. 241–243 (1997) 878
Noda, N., see Sagara, A. 241–243 (1997) 972

Noda, N., see Morisaki, T. 241–243 (1997) 977
Noda, N., see Tsuzuki, K. 241–243 (1997) 1055
Noda, N., see Fujita, I. 241–243 (1997) 1185
Notkin, M., see Livshits, A. 241–243 (1997) 1203
Nührenberg, J., see Renner, H. 241–243 (1997) 946
Nygren, R., T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem, Runaway electron damage to the Tore Supra Phase III outboard pump limiter 241–243 (1997) 522

Obiki, T., see Kondo, K. 241–243 (1997) 956
Obiki, T., see Sano, F. 241–243 (1997) 961
Obiki, T., see Kokura, H. 241–243 (1997) 1217
Oda, N., see Masamune, S. 241–243 (1997) 1002
Oda, T., see Takiyama, K. 241–243 (1997) 1222
Oda, T., K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane, A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma 241–243 (1997) 1238
Oelhafen, P., see Thiele, J.-U. 241–243 (1997) 1127
Ogawa, T., see Takiyama, K. 241–243 (1997) 1222
Ogiwara, N., see Yagyu, J. 241–243 (1997) 579
Ohdachi, S., see Komori, A. 241–243 (1997) 967
Ohkawa, H., see LaBombard, B. 241–243 (1997) 149
Ohkawa, H., see Lipschultz, B. 241–243 (1997) 771
Ohkawa, H., see McCracken, G.M. 241–243 (1997) 777
Ohkawa, H., see Granetz, R.S. 241–243 (1997) 788
Ohkoshi, K., see Bandourko, V. 241–243 (1997) 1071
Ohno, N., see Ezumi, N. 241–243 (1997) 349
Ohno, N., see Ye, M.Y. 241–243 (1997) 1243
Ohta, K., see Masamune, S. 241–243 (1997) 1002
Ohya, K., see Wada, M. 241–243 (1997) 799
Ohyabu, N., see Komori, A. 241–243 (1997) 967
Ohyabu, N., see Morisaki, T. 241–243 (1997) 977
Ohyabu, N., see Glazunov, G.P. 241–243 (1997) 1052
Ohyabu, N., see Livshits, A. 241–243 (1997) 1203
Okabe, T., see Yagyu, J. 241–243 (1997) 579
Okabe, T., see Ashida, K. 241–243 (1997) 1060
Okada, H., see Kondo, K. 241–243 (1997) 956
Okada, H., see Sano, F. 241–243 (1997) 961
Okamoto, T., see Kondo, K. 241–243 (1997) 956
Okamura, S., see Komori, A. 241–243 (1997) 967
Okamura, S., see Sagara, A. 241–243 (1997) 972
Okamura, S., see Morisaki, T. 241–243 (1997) 977
Okumura, Y., see Nakamura, K. 241–243 (1997) 1142
Ongena, J., see Telesca, G. 241–243 (1997) 853
Ono, M., see Skinner, C.H. 241–243 (1997) 214
Osakabe, M., see Morisaki, T. 241–243 (1997) 977
Osborne, T.H., see Leonard, A.W. 241–243 (1997) 628
O'Shea, P., see LaBombard, B. 241–243 (1997) 149
Oshiyama, H., see Masamune, S. 241–243 (1997) 1002
Ovchinnikov, I., see Linke, J. 241–243 (1997) 1210
Overbey, D.R., see Komori, A. 241–243 (1997) 967
Owen, L.W., T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan, Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter 241–243 (1997) 499
Owen, L.W., see Baker, D.R. 241–243 (1997) 602
Owens, D.K., see Skinner, C.H. 241–243 (1997) 214
Owens, D.K., see Mueller, D. 241–243 (1997) 897
Ozaki, T., see Sagara, A. 241–243 (1997) 972

Pacher, G.W., see Stansfield, B.L. 241–243 (1997) 739
Pacher, H.D., see Parker, R. 241–243 (1997) 1
Pacher, H.D., I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider, Erosion lifetime of ITER divertor plates 241–243 (1997) 255
Pacher, H.D., see Kukushkin, A. 241–243 (1997) 268
Pacher, H.D., see Sugihara, M. 241–243 (1997) 299
Pan, Y.D., see Hong, W.Y. 241–243 (1997) 1234
Park, H., see Skinner, C.H. 241–243 (1997) 214
Park, H., see Bush, C.E. 241–243 (1997) 892
Park, J., see Ezumi, N. 241–243 (1997) 349
Park, J., T.K. Bennett, M.J. Goeckner and S.A. Cohen, Plasma–neutral interaction in thermally collapsed plasma 241–243 (1997) 489
Parker, R., G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici, P. Ladd, ITER Joint Central Team and Home Teams, Plasma–wall interactions in ITER 241–243 (1997) 1
Parks, P.B., see Bastasz, R. 241–243 (1997) 650
Pasqualotto, R., see Valisa, M. 241–243 (1997) 988
Paul, S.F., see Skinner, C.H. 241–243 (1997) 214
Peacock, A.T., see Mayer, M. 241–243 (1997) 469
Pearson, G., see Skinner, C.H. 241–243 (1997) 214
Pégourié, B., T. Loarer, E. Tsitrone and G. Granata, Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra 241–243 (1997) 494
Peng, L.L., B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian, Study of helium transport in HL-1M edge plasma region 241–243 (1997) 883
Peng, Z., L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian, The first results of siliconization on SWIP-RFP device 241–243 (1997) 1008
Pericoli Ridolfini, V., see Leigheb, M. 241–243 (1997) 914
Peruzzo, S., see Sonato, P. 241–243 (1997) 982
Petrie, T.W., see Allen, S.L. 241–243 (1997) 595
Petrie, T.W., see Jackson, G.L. 241–243 (1997) 618
Petrie, T.W., see Lasnier, C.J. 241–243 (1997) 623
Petrie, T.W., S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher,

R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West, Investigation of electron parallel pressure balance in the scrapeoff layer of deuterium-based radiative divertor discharges in DIII-D 241–243 (1997) 639
Petrie, T.W., see Fenstermacher, M.E. 241–243 (1997) 666
Petrov, M., see Skinner, C.H. 241–243 (1997) 214
Petrov, V.B., see Antonov, N.V. 241–243 (1997) 1190
Petrzilka, J., see Pitts, R.A. 241–243 (1997) 867
Philipps, V., A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold, J. Winter and the TEXTOR team, Impurity release and deposition processes close to limiter surfaces in TEXTOR-94 241–243 (1997) 105
Philipps, V., see Noda, N. 241–243 (1997) 227
Philipps, V., see Unterberg, B. 241–243 (1997) 793
Philipps, V., see Wada, M. 241–243 (1997) 799
Philipps, V., see Vietzke, E. 241–243 (1997) 810
Philipps, V., see Kögler, U. 241–243 (1997) 816
Philipps, V., see Pospieszczyk, A. 241–243 (1997) 833
Philipps, V., see Refke, A. 241–243 (1997) 1103
Philipps, V., see Tanabe, T. 241–243 (1997) 1164
Phillips, C.K., see Skinner, C.H. 241–243 (1997) 214
Phillips, J.C., see Jackson, G.L. 241–243 (1997) 655
Pierdominici, F., see Maddaluno, G. 241–243 (1997) 908
Pietrzyk, Z.A., see Summers, D.D.R. 241–243 (1997) 391
Pietrzyk, Z.A., see Pitts, R.A. 241–243 (1997) 867
Piffl, V., see Pitts, R.A. 241–243 (1997) 867
Pigarov, A.Yu., see Krasheninnikov, S.I. 241–243 (1997) 283
Ping, Y., see Peng, Z. 241–243 (1997) 1008
Pistunovich, V.I., see Antonov, N.V. 241–243 (1997) 1190
Pitcher, C.S., see Krieger, K. 241–243 (1997) 684
Pitcher, C.S., A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer, M. Weinlich, ASDEX Upgrade Team and NBI Group, Routes to divertor detachment in ASDEX Upgrade 241–243 (1997) 696
Piterskii, V.V., see Vershkov, V.A. 241–243 (1997) 873
Pitts, R.A., Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo, Divertor target profiles and recycling studies in TCV single null lower standard discharges 241–243 (1997) 867
Plank, H., see Franzen, P. 241–243 (1997) 1082
Plank, H., see Schwörer, R. 241–243 (1997) 1156
Podkovirnov, V.I., see Antonov, N.V. 241–243 (1997) 1190
Porkolab, M., see LaBombard, B. 241–243 (1997) 149
Porter, G.D., see Rognlien, T.D. 241–243 (1997) 590
Porter, G.D., see Allen, S.L. 241–243 (1997) 595
Porter, G.D., see Baker, D.R. 241–243 (1997) 602
Porter, G.D., see Lasnier, C.J. 241–243 (1997) 623
Porter, G.D., see Moyer, R.A. 241–243 (1997) 633
Porter, G.D., see Petrie, T.W. 241–243 (1997) 639
Porter, G.D., see Fenstermacher, M.E. 241–243 (1997) 666
Pospieszczyk, A., see Philipps, V. 241–243 (1997) 105
Pospieszczyk, A., see Unterberg, B. 241–243 (1997) 793
Pospieszczyk, A., see Wada, M. 241–243 (1997) 799
Pospieszczyk, A., see Kögler, U. 241–243 (1997) 816
Pospieszczyk, A., see Mank, G. 241–243 (1997) 821
Pospieszczyk, A., V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder, Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94 241–243 (1997) 833
Pospieszczyk, A., see Höthker, K. 241–243 (1997) 839
Pospieszczyk, A., see Tanabe, T. 241–243 (1997) 1164
Post, D., see Parker, R. 241–243 (1997) 1
Post, D., see Sugihara, M. 241–243 (1997) 299
Post, D., see Putvinski, S. 241–243 (1997) 316
Pozharov, V.A., see Antonov, N.V. 241–243 (1997) 1190
PSI-group, see Naujoks, D. 241–243 (1997) 707
Pugno, R., see Valisa, M. 241–243 (1997) 988
Puiatti, M.E., see Valisa, M. 241–243 (1997) 988
Putvinskaya, N., see Putvinski, S. 241–243 (1997) 316
Putvinski, S., N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley, Impurity fueling to terminate Tokamak discharges 241–243 (1997) 316

Qian, S.J., see Peng, L.L. 241–243 (1997) 883
Qian, S.J., see Hong, W.Y. 241–243 (1997) 1234
Qiang, L., see Peng, Z. 241–243 (1997) 1008
Qingchun, Z., see Peng, Z. 241–243 (1997) 1008
Quanming, W., see Peng, Z. 241–243 (1997) 1008

Radford, G.J., see Lowry, C.G. 241–243 (1997) 438
Raffray, R., see Pacher, H.D. 241–243 (1997) 255
Raftopoulos, S., see Skinner, C.H. 241–243 (1997) 214
Ramsey, A., see Skinner, C.H. 241–243 (1997) 214
Ran, L.B., see Hong, W.Y. 241–243 (1997) 1234
Rapp, J., see Mank, G. 241–243 (1997) 821
Rapp, J., see Telesca, G. 241–243 (1997) 853
Ratel, G., see Stansfield, B.L. 241–243 (1997) 739
Raucci, R., see Skinner, C.H. 241–243 (1997) 214
Reardon, J., see LaBombard, B. 241–243 (1997) 149
Redi, M.H., see Skinner, C.H. 241–243 (1997) 214
Refke, A., see Vietzke, E. 241–243 (1997) 810
Refke, A., V. Philipps and E. Vietzke, Retention and erosion behavior of oxygen implanted in different Si/C-materials 241–243 (1997) 1103
Reichle, R., see Maggi, C.F. 241–243 (1997) 414
Reichle, R., see Lowry, C.G. 241–243 (1997) 438
Reichle, R., J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp, Low energy neutral particle fluxes in the JET divertor 241–243 (1997) 456

Reiner, H.-D., see Grote, H. 241–243 (1997) 1152
Reinke, P., see Pitts, R.A. 241–243 (1997) 867
Reiter, D., see Sardei, F. 241–243 (1997) 135
Reiter, D., see Borrass, K. 241–243 (1997) 250
Reiter, D., see Kukushkin, A. 241–243 (1997) 268
Reiter, D., Chr. May, M. Baelmans and P. Börner, Non-linear effects on neutral gas transport in divertors 241–243 (1997) 342
Reiter, D., see Maddison, G.P. 241–243 (1997) 353
Reiter, D., see Coster, D.P. 241–243 (1997) 690
Reiter, D., see Herre, G. 241–243 (1997) 941
Renner, H., E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig, Boundary modelling of the stellarator Wendelstein 7-X 241–243 (1997) 946
Rensink, M.E., see Pitts, R.A. 241–243 (1997) 867
Rewoldt, G., see Skinner, C.H. 241–243 (1997) 214
Rey, G., see Mailloux, J. 241–243 (1997) 745
Rhodes, T.L., see Fenstermacher, M.E. 241–243 (1997) 666
Rice, B.W., see Lasnier, C.J. 241–243 (1997) 623
Rice, J., see LaBombard, B. 241–243 (1997) 149
Rice, J.E., see McCracken, G.M. 241–243 (1997) 777
Rice, J.E., see Granetz, R.S. 241–243 (1997) 788
Richard, N., see Stansfield, B.L. 241–243 (1997) 739
Richard, N., see Terreault, B. 241–243 (1997) 755
Richard, N., B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak, Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas 241–243 (1997) 760
Richter-Glötzl, M., see Sardei, F. 241–243 (1997) 135
Righi, E., see Saibene, G. 241–243 (1997) 476
Rödig, M., see Linke, J. 241–243 (1997) 1210
Rogers, J., see Skinner, C.H. 241–243 (1997) 214
Rognlien, T.D., see Wising, F. 241–243 (1997) 273
Rognlien, T.D., J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor, Simulation of the scrape-off layer plasma during a disruption 241–243 (1997) 590
Rohde, V., see Neu, R. 241–243 (1997) 678
Rohde, V., M. Laux, P. Bachmann, A. Herrmann, M. Weinlich and AUGD team, Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe 241–243 (1997) 712
Rohde, V., see Carlson, A. 241–243 (1997) 722
Rohde, V., see Krieger, K. 241–243 (1997) 734
Rome, J.A., see Komori, A. 241–243 (1997) 967
Roquemore, A.L., see Skinner, C.H. 241–243 (1997) 214
Rosenbluth, M.N., see Putvinski, S. 241–243 (1997) 316
Ross, G.G., see Bourgoin, D. 241–243 (1997) 765
Ross, G.G., see Barbier, G. 241–243 (1997) 1036
Rost, J., see LaBombard, B. 241–243 (1997) 149
Roth, J., see Neu, R. 241–243 (1997) 678
Roth, J., see Krieger, K. 241–243 (1997) 684
Roth, J., see Krieger, K. 241–243 (1997) 734
Roth, J., see Wang, W. 241–243 (1997) 1087
Roth, J., see Schwörer, R. 241–243 (1997) 1156
Rubel, M., see Coad, J.P. 241–243 (1997) 408
Rubel, M., see Unterberg, B. 241–243 (1997) 793
Rubel, M., H. Bergsåker and P. Wienhold, Ion-induced release of deuterium from co-deposits by high energy helium bombardment 241–243 (1997) 1026
Rubenstein, J., see Whyte, D.G. 241–243 (1997) 660
Runov, A., see Sardei, F. 241–243 (1997) 135
Runov, A., see Naujoks, D. 241–243 (1997) 925
Rusbüldt, D., see Unterberg, B. 241–243 (1997) 793
Ruskov, E., see Skinner, C.H. 241–243 (1997) 214
Ruzic, D.N., see Brooks, J.N. 241–243 (1997) 294
Ruzic, D.N., P.C. Smith and R.B. Turkot Jr., Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+ 241–243 (1997) 1170
Ryutov, D., see Allen, S.L. 241–243 (1997) 595

Sabbagh, S.A., see Skinner, C.H. 241–243 (1997) 214
Safronov, V., see Hassanein, A. 241–243 (1997) 288
Sagara, A., Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada, Real time boronization experiments in CHS and scaling for LHD 241–243 (1997) 972
Sagara, A., see Glazunov, G.P. 241–243 (1997) 1052
Sagara, A., see Tsuzuki, K. 241–243 (1997) 1055
Saibene, G., see Lowry, C.G. 241–243 (1997) 438
Saibene, G., D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork, Influence of active pumping on density and confinement behaviour of JET plasmas 241–243 (1997) 476
Saibene, G.R., see Ehrenberg, J.K. 241–243 (1997) 420
Saidoh, M., see Yagyu, J. 241–243 (1997) 579
Saidoh, M., see Yamaki, T. 241–243 (1997) 1132
Saidoh, M., see Jimbou, R. 241–243 (1997) 1175
Saigusa, M., see Kondoh, T. 241–243 (1997) 564
Saint-Jacques, R.G., see Urquiaga Valdes, M. 241–243 (1997) 750
Sakakibara, S., see Komori, A. 241–243 (1997) 967
Sakamoto, K., see Kondo, K. 241–243 (1997) 956
Sakasai, A., see Shimizu, K. 241–243 (1997) 167
Sakasai, A., see Asakura, N. 241–243 (1997) 559
Sakasai, A., see Takenaga, H. 241–243 (1997) 569
Sakasai, A., see Higashijima, S. 241–243 (1997) 574
Sakawa, Y., see Boedo, J.A. 241–243 (1997) 857
Sakurai, S., see Asakura, N. 241–243 (1997) 559
Sakurai, S., see Higashijima, S. 241–243 (1997) 574
Samartsev, A., see Livshits, A. 241–243 (1997) 1203
Samm, U., see Philipps, V. 241–243 (1997) 105
Samm, U., see Matthews, G.F. 241–243 (1997) 450
Samm, U., see Tokar', M.Z. 241–243 (1997) 528
Samm, U., see Unterberg, B. 241–243 (1997) 793

Samm, U., M.Z. Tokar' and B. Unterberg, On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma 241–243 (1997) 827
Samm, U., see Telesca, G. 241–243 (1997) 853
Sano, F., see Kondo, K. 241–243 (1997) 956
Sano, F., T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki, Field line measurements in the divertor of Heliotron-E under boronized conditions 241–243 (1997) 961
Sano, F., see Kokura, H. 241–243 (1997) 1217
Sarazin, Y. and Ph. Ghendrih, Self-organized criticality in particle transport governed by ionization 241–243 (1997) 322
Sardei, F., Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner, R. Wolf, W7-AS Team and NBI Group, Island divertor studies on W7-AS 241–243 (1997) 135
Sardei, F., see Feng, Y. 241–243 (1997) 930
Sardei, F., see Grigull, P. 241–243 (1997) 935
Sardei, F., see Herre, G. 241–243 (1997) 941
Sardei, F., see Hildebrandt, D. 241–243 (1997) 950
Sasaki, K., see Kokura, H. 241–243 (1997) 1217
Sasaki, S., see Nagatsu, M. 241–243 (1997) 1180
Sato, K. and S. Kameda, Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma 241–243 (1997) 333
Sato, K., see Sagara, A. 241–243 (1997) 972
Sato, K., see Oda, T. 241–243 (1997) 1238
Sato, K.I., see Matsuoka, A. 241–243 (1997) 998
Satomi, N., K. Tanaka, M. Kitamura and M. Nishikawa, Effect of irradiation ion species on internal stress in boron thin films 241–243 (1997) 1138
Savoie, S., see Bourgoin, D. 241–243 (1997) 765
Scarin, P., see Valisa, M. 241–243 (1997) 988
Schachter, J., see LaBombard, B. 241–243 (1997) 149
Schaffer, M.J., M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi, Direct measurement of divertor exhaust neon enrichment in DIII. -D 241–243 (1997) 585
Schaffer, M.J., see Evans, T.E. 241–243 (1997) 606
Schaffer, M.J., see Jackson, G.L. 241–243 (1997) 618
Schaffer, M.J., see Fenstermacher, M.E. 241–243 (1997) 666
Schaffer, M.J., see Maingi, R. 241–243 (1997) 672
Schechter, D.E., see Komori, A. 241–243 (1997) 967
Scherzer, B.M.U., see Wang, W. 241–243 (1997) 1087
Schilling, G., see Skinner, C.H. 241–243 (1997) 214
Schivell, J.F., see Skinner, C.H. 241–243 (1997) 214
Schlosser, J., see Guilhem, D. 241–243 (1997) 542
Schmidt, G.L., see Skinner, C.H. 241–243 (1997) 214
Schneider, R., see Bosch, H.-S. 241–243 (1997) 82
Schneider, R., see Sardei, F. 241–243 (1997) 135
Schneider, R., see Borrass, K. 241–243 (1997) 250
Schneider, R., see Kukushkin, A. 241–243 (1997) 268
Schneider, R., see Coster, D.P. 241–243 (1997) 690
Schneider, R., H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann, Divertor geometry optimization for ASDEX Upgrade 241–243 (1997) 701
Schneider, R., see Grigull, P. 241–243 (1997) 935
Schneider, R., see Herre, G. 241–243 (1997) 941
Schneider, W., see Krieger, K. 241–243 (1997) 684
Scholz, T., J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein, Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak 241–243 (1997) 848
Schoon, N., see Telesca, G. 241–243 (1997) 853
Schorn, R.P., see Höthker, K. 241–243 (1997) 839
Schweer, B., see Philipps, V. 241–243 (1997) 105
Schweer, B., see Unterberg, B. 241–243 (1997) 793
Schweer, B., see Wada, M. 241–243 (1997) 799
Schweer, B., see Kögler, U. 241–243 (1997) 816
Schweer, B., see Pospieszczyk, A. 241–243 (1997) 833
Schweer, B., see Höthker, K. 241–243 (1997) 839
Schweer, B., see Telesca, G. 241–243 (1997) 853
Schweer, B., see Tanabe, T. 241–243 (1997) 1164
Schweinzer, J., see Bosch, H.-S. 241–243 (1997) 82
Schweinzer, J., see Pitcher, C.S. 241–243 (1997) 696
Schwelberger, J., see Mank, G. 241–243 (1997) 821
Schwelberger, J.G., see Boedo, J.A. 241–243 (1997) 857
Schwörer, R., see Krieger, K. 241–243 (1997) 734
Schwörer, R., H. Plank and J. Roth, Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment 241–243 (1997) 1156
Scott, H.A., see Koniges, A.E. 241–243 (1997) 244
Scott, S.D., see Skinner, C.H. 241–243 (1997) 214
Segui, J.L., see Gauthier, E. 241–243 (1997) 553
Sergeev, V.Y., see Kondo, K. 241–243 (1997) 956
Sesnic, S., see Skinner, C.H. 241–243 (1997) 214
Shangjie, Q., see Peng, Z. 241–243 (1997) 1008
Shapkin, V.V., see Antonov, N.V. 241–243 (1997) 1190
Shimizu, K., T. Takizuka and A. Sakasai, A review on impurity transport in divertors 241–243 (1997) 167
Shimizu, K., see Asakura, N. 241–243 (1997) 559
Shimizu, K., see Takenaga, H. 241–243 (1997) 569
Shimizu, K., see Higashijima, S. 241–243 (1997) 574
Shoji, M., see Nakashima, Y. 241–243 (1997) 1011
Shoji, T., see Boedo, J.A. 241–243 (1997) 857
Shoucri, M.M., see Stansfield, B.L. 241–243 (1997) 739
Shtan', A.V., see Glazunov, G.P. 241–243 (1997) 1052
Shuiquan, F., see Peng, Z. 241–243 (1997) 1008
Sigmar, D.J., see Wising, F. 241–243 (1997) 273
Sigmar, D.J., see Krasheninnikov, S.I. 241–243 (1997) 283
Sigmar, D.J., see Batishchev, O.V. 241–243 (1997) 374
Silva, C., see Fielding, S.J. 241–243 (1997) 902
Silz, M., see Mertens, P. 241–243 (1997) 842

Simonini, R., see Stangeby, P.C. 241–243 (1997) 358
Simonini, R., see Guo, H.Y. 241–243 (1997) 385
Simonini, R., see Ehrenberg, J.K. 241–243 (1997) 420
Simonini, R., see McCormick, G.K. 241–243 (1997) 444
Simonini, R., see Reichle, R. 241–243 (1997) 456
Skinner, C.H., E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben, Plasma wall interaction and tritium retention in TFTR 241–243 (1997) 214
Skinner, C.H., J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler, Measurements of tritium recycling and isotope exchange in TFTR 241–243 (1997) 887
Skinner, C.H., see Bush, C.E. 241–243 (1997) 892
Skinner, C.H., see Mueller, D. 241–243 (1997) 897
Smid, I., see Pacher, H.D. 241–243 (1997) 255
Smirnov, A.P., see Helander, P. 241–243 (1997) 278
Smith, G.R., see Rognlien, T.D. 241–243 (1997) 590
Smith, G.R., see Pitts, R.A. 241–243 (1997) 867
Smith, P.C., see Ruzic, D.N. 241–243 (1997) 1170
Snipes, J., see LaBombard, B. 241–243 (1997) 149
Soboleva, T.K., see Krasheninnikov, S.I. 241–243 (1997) 283
Sogabe, T., see Fujita, I. 241–243 (1997) 1185
Soldatov, S.V., see Vershkov, V.A. 241–243 (1997) 873
Solovyov, M., see Livshits, A. 241–243 (1997) 1203
Sonato, P., V. Antoni, M. Bagatin, W.R. Baker, S. Peruzzo, L. Tramontin, P. Zaccaria and G. Zollino, Investigation of plasma facing components and vacuum vessel in RFX 241–243 (1997) 982
Sorci, J., see LaBombard, B. 241–243 (1997) 149
Spada, F.E., see Won, J. 241–243 (1997) 1110
Spence, J., see Lowry, C.G. 241–243 (1997) 438
Spence, J., see McCormick, G.K. 241–243 (1997) 444
Staebler, G.M., see Ali Mahdavi, M. 241–243 (1997) 305
Staebler, G.M., see Jackson, G.L. 241–243 (1997) 618
Stallard, B.W., see Lasnier, C.J. 241–243 (1997) 623
Stambaugh, R.D., see Fenstermacher, M.E. 241–243 (1997) 666
Stamp, M., see Maggi, C.F. 241–243 (1997) 414
Stamp, M., see Lowry, C.G. 241–243 (1997) 438
Stamp, M., see McCormick, G.K. 241–243 (1997) 444
Stamp, M., see Matthews, G.F. 241–243 (1997) 450
Stamp, M.F., see Guo, H.Y. 241–243 (1997) 385
Stamp, M.F., see Monk, R.D. 241–243 (1997) 396
Stamp, M.F., see Ehrenberg, J.K. 241–243 (1997) 420
Stamp, M.F., see Reichle, R. 241–243 (1997) 456
Stamp, M.F., see Günther, K. 241–243 (1997) 462
Stangeby, P.C., J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk, Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code 241–243 (1997) 358
Stangeby, P.C., see Guo, H.Y. 241–243 (1997) 385
Stangeby, P.C., see Monk, R.D. 241–243 (1997) 396
Stangeby, P.C., see Maggi, C.F. 241–243 (1997) 414
Stangeby, P.C., see Davies, S.J. 241–243 (1997) 426
Stangeby, P.C., see Erents, S.K. 241–243 (1997) 433
Stangeby, P.C., see Matthews, G.F. 241–243 (1997) 450
Stangeby, P.C., see Stansfield, B.L. 241–243 (1997) 739
Stangeby, P.C., see McCracken, G.M. 241–243 (1997) 777
Stangeby, P.C., see Jablonski, D. 241–243 (1997) 782
Stansfield, B.L., F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby, Controlled detachment and particle transport in the divertor plasma in TdeV 241–243 (1997) 739
Stansfield, B.L., see Terreault, B. 241–243 (1997) 755
Steinbrink, J., see Naujoks, D. 241–243 (1997) 707
Steinbrink, J., see Grote, H. 241–243 (1997) 1152
Stek, P., see LaBombard, B. 241–243 (1997) 149
Steuer, K.-H., see Matthews, G.F. 241–243 (1997) 450
Stevenson, T., see Skinner, C.H. 241–243 (1997) 214
Stockdale, R., see Allen, S.L. 241–243 (1997) 595
Stoljarova, V.G., see Guseva, M.I. 241–243 (1997) 1117
Stork, D., see Saibene, G. 241–243 (1997) 476
Stotler, D.P., see Skinner, C.H. 241–243 (1997) 214

Stotler, D.P., see Skinner, C.H. 241–243 (1997) 887
Strachan, J.D., see Skinner, C.H. 241–243 (1997) 214
Stratton, B.C., see Skinner, C.H. 241–243 (1997) 214
Stroth, U., see Sardei, F. 241–243 (1997) 135
Strumberger, E., see Renner, H. 241–243 (1997) 946
Sudo, S., see Kondo, K. 241–243 (1997) 956
Sugai, H., see Toyoda, H. 241–243 (1997) 1031
Sugai, H., see Kokura, H. 241–243 (1997) 1217
Sugawara, M., see Matsuoka, A. 241–243 (1997) 998
Sugie, T., see Higashijima, S. 241–243 (1997) 574
Sugihara, M., T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov, Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER 241–243 (1997) 299
Summers, D.D.R., P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince, Edge density profiles in high-performance JET plasmas 241–243 (1997) 391
Summers, D.D.R., see Erents, S.K. 241–243 (1997) 433
Summers, H.P., see Maggi, C.F. 241–243 (1997) 414
Sünder, D., see Naujoks, D. 241–243 (1997) 925
Suttrop, W., see Leonard, A.W. 241–243 (1997) 628
Suttrop, W., see Pitcher, C.S. 241–243 (1997) 696
Suzuki, H., see Ezumi, N. 241–243 (1997) 349
Suzuki, H., see Komori, A. 241–243 (1997) 967
Suzuki, H., see Sagara, A. 241–243 (1997) 972
Suzuki, H., see Morisaki, T. 241–243 (1997) 977
Suzuki, H., see Livshits, A. 241–243 (1997) 1203
Suzuki, Y., see Matsuoka, A. 241–243 (1997) 998
Suzuki, Y., see Yamaki, T. 241–243 (1997) 1132
Suzuki, Y., see Jimbou, R. 241–243 (1997) 1175
Synakowski, E., see Skinner, C.H. 241–243 (1997) 214
Synakowski, E.J., see Bush, C.E. 241–243 (1997) 892
Sze, F.C., see Won, J. 241–243 (1997) 1110

Tabarés, F.L., D. Tafalla, V. Herrero and I. Tanarro, Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron 241–243 (1997) 1228
Tabasso, A., see Guo, H.Y. 241–243 (1997) 385
Tabasso, A., see Lingertat, J. 241–243 (1997) 402
Tafalla, D., see Tabarés, F.L. 241–243 (1997) 1228
Taglauer, E., see Zebisch, P. 241–243 (1997) 919
Takada, N., see Nagatsu, M. 241–243 (1997) 1180
Takagi, M., see Ezumi, N. 241–243 (1997) 349
Takahara, K., see Oda, T. 241–243 (1997) 1238
Takahashi, C., see Komori, A. 241–243 (1997) 967
Takahashi, C., see Sagara, A. 241–243 (1997) 972
Takahashi, C., see Morisaki, T. 241–243 (1997) 977
Takahashi, H., see Skinner, C.H. 241–243 (1997) 214
Takamura, S., see Ezumi, N. 241–243 (1997) 349
Takamura, S., see Ye, M.Y. 241–243 (1997) 1243
Takamura, S., see Kojima, M. 241–243 (1997) 1248
Takase, Y., see LaBombard, B. 241–243 (1997) 149
Takase, Y., see Lipschultz, B. 241–243 (1997) 771
Takenaga, H., N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai, Effects of edge and central fuelling on particle confinement in JT-60U 241–243 (1997) 569
Takenaga, H., see Higashijima, S. 241–243 (1997) 574
Takeshita, H., see Yagyu, J. 241–243 (1997) 579
Takiyama, K., T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda, Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges 241–243 (1997) 1222
Takiyama, K., see Oda, T. 241–243 (1997) 1238
Takizuka, T., see Shimizu, K. 241–243 (1997) 167
Tamano, T., see Nakashima, Y. 241–243 (1997) 1011
Tanabe, T., see Unterberg, B. 241–243 (1997) 793
Tanabe, T., see Wada, M. 241–243 (1997) 799
Tanabe, T., V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg, Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand 241–243 (1997) 1164
Tanaka, K., see Komori, A. 241–243 (1997) 967
Tanaka, K., see Sagara, A. 241–243 (1997) 972
Tanaka, K., see Morisaki, T. 241–243 (1997) 977
Tanaka, K., see Satomi, N. 241–243 (1997) 1138
Tanarro, I., see Tabarés, F.L. 241–243 (1997) 1228
Tang, W., see Skinner, C.H. 241–243 (1997) 214
Tareb, M., see Mailloux, J. 241–243 (1997) 745
Taroni, A., see Vlases, G. 241–243 (1997) 310
Taroni, A., see Stangeby, P.C. 241–243 (1997) 358
Taroni, A., see Ehrenberg, J.K. 241–243 (1997) 420
Taroni, A., see Lowry, C.G. 241–243 (1997) 438
Taroni, A., see McCormick, G.K. 241–243 (1997) 444
Taroni, A., see Matthews, G.F. 241–243 (1997) 450
Tawara, H., see Oda, T. 241–243 (1997) 1238
Taylor, G., see Skinner, C.H. 241–243 (1997) 214
Taylor, P.L., see Rognlien, T.D. 241–243 (1997) 590
Taylor, P.L., see Evans, T.E. 241–243 (1997) 606
Taylor, T.S., see Lasnier, C.J. 241–243 (1997) 623
Taylor, T.S., see Jackson, G.L. 241–243 (1997) 655
Telesca, G., H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost, Scaling of radiated power to plasma contamination for neon seeded discharges on boronized TEXTOR-94 241–243 (1997) 853
Terreault, B., see Maingi, R. 241–243 (1997) 672
Terreault, B., see Stansfield, B.L. 241–243 (1997) 739
Terreault, B., see Mailloux, J. 241–243 (1997) 745
Terreault, B., N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak, Radiative plasmas in TdeV 241–243 (1997) 755
Terreault, B., see Richard, N. 241–243 (1997) 760
Terry, J., see LaBombard, B. 241–243 (1997) 149

Terry, J., see Jablonski, D. 241–243 (1997) 782
Terry, J.L., see Lipschultz, B. 241–243 (1997) 771
Terry, J.L., see McCracken, G.M. 241–243 (1997) 777
Terry, J.L., see Granetz, R.S. 241–243 (1997) 788
TEXTOR- and ICRH-team, see Esser, H.G. 241–243 (1997) 861
TEXTOR team, see Boedo, J.A. 241–243 (1997) 857
the TEXTOR team, see Philipps, V. 241–243 (1997) 105
The TORE-SUPRA team, see Chappuis, Ph. 241–243 (1997) 27
Thiele, J.-U., E. Vietzke and P. Oelhafen, Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study 241–243 (1997) 1127
Thoma, A., see Neu, R. 241–243 (1997) 678
Thoma, A., see Krieger, K. 241–243 (1997) 684
Thoma, A., see Wenzel, U. 241–243 (1997) 728
Thoma, A., see Krieger, K. 241–243 (1997) 734
Thomas, D.M., see Jackson, G.L. 241–243 (1997) 655
Thomas, D.M., see Fenstermacher, M.E. 241–243 (1997) 666
Thomas, D.N., see Leonard, A.W. 241–243 (1997) 628
Tighe, W., see Skinner, C.H. 241–243 (1997) 214
Timberlake, J.R., see Skinner, C.H. 241–243 (1997) 214
Tobita, K., see Kondoh, T. 241–243 (1997) 564
Toi, K., see Sagara, A. 241–243 (1997) 972
Tokar, M., see Wada, M. 241–243 (1997) 799
Tokar', M.Z., H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm, Effect of magnetic field stochastization on impurity behavior in a tokamak 241–243 (1997) 528
Tokar', M.Z., see Kögler, U. 241–243 (1997) 816
Tokar', M.Z., see Samm, U. 241–243 (1997) 827
Tokar', M.Z., see Telesca, G. 241–243 (1997) 853
Tokunaga, K., Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano, High heat load properties of TiC dispersed Mo alloys 241–243 (1997) 1197
Toyoda, H., M. Watanabe and H. Sugai, Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment 241–243 (1997) 1031
Toyoda, H., see Kokura, H. 241–243 (1997) 1217
Toyota, H., see Takiyama, K. 241–243 (1997) 1222
Tramontin, L., see Sonato, P. 241–243 (1997) 982
Tramontin, L., see Bergsåker, H. 241–243 (1997) 993
Tsitrone, E., see Pégourié, B. 241–243 (1997) 494
Tsuchikura, I., see Nagatsu, M. 241–243 (1997) 1180
Tsuchiya, B. and K. Morita, Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams 241–243 (1997) 1065
Tsuchiya, B., see Jimbou, R. 241–243 (1997) 1175
Tsuchiya, K., see Nakashima, Y. 241–243 (1997) 1011
Tsuji-Iio, S., see Asakura, N. 241–243 (1997) 559
Tsuzuki, K., see Sagara, A. 241–243 (1997) 972
Tsuzuki, K., M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina, Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium 241–243 (1997) 1055
Tugarinov, S., see Fenstermacher, M.E. 241–243 (1997) 666
Turkot Jr., R.B., see Ruzic, D.N. 241–243 (1997) 1170
Turlur, S., E. Joffrin, M. Zabiégo, Ph. Ghendrih and A. Grosman, Edge MHD activity in the ergodic divertor configuration of Tore Supra 241–243 (1997) 548

Uckan, T., see Owen, L.W. 241–243 (1997) 499
Ueda, Y., see Unterberg, B. 241–243 (1997) 793
Ueda, Y., see Wada, M. 241–243 (1997) 799
Ueda, Y., see Tanabe, T. 241–243 (1997) 1164
Uesugi, Y., see Hara, J. 241–243 (1997) 338
Ul'Haq, Y., see Davies, S.J. 241–243 (1997) 426
Ulrickson, M., see Watkins, J.G. 241–243 (1997) 645
Unterberg, B., see Philipps, V. 241–243 (1997) 105
Unterberg, B., see Matthews, G.F. 241–243 (1997) 450
Unterberg, B., H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Rusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada, Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94 241–243 (1997) 793
Unterberg, B., see Wada, M. 241–243 (1997) 799
Unterberg, B., see Samm, U. 241–243 (1997) 827
Unterberg, B., see Pospieszczyk, A. 241–243 (1997) 833
Unterberg, B., see Telesca, G. 241–243 (1997) 853
Unterberg, B., see Tanabe, T. 241–243 (1997) 1164
Urquiaga Valdes, M., R.G. Saint-Jacques, J.-F. Côté and C. Moreau, High heat load testing of plasma sprayed W coatings 241–243 (1997) 750

Valisa, M., T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin, Locked modes induced plasma–wall interactions in RFX 241–243 (1997) 988
Valovic, M., see Fielding, S.J. 241–243 (1997) 902
Van Belle, P., see Lingertat, J. 241–243 (1997) 402
Van Houtte, D., see Grisolia, C. 241–243 (1997) 538
Van Houtte, D., see Guilhem, D. 241–243 (1997) 542
Van Oost, G., see Höthker, K. 241–243 (1997) 839
Van Oost, G., see Telesca, G. 241–243 (1997) 853
Van Oost, G., see Esser, H.G. 241–243 (1997) 861
Van Toledo, W., see Pitts, R.A. 241–243 (1997) 867
Verbeek, H., see Sardei, F. 241–243 (1997) 135
Verbeek, H., see Grigull, P. 241–243 (1997) 935
Vershkov, V.A., S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets, Radial distributions and poloidal asymmetries of T-10 SOL parameters and turbulence 241–243 (1997) 873

Vertkov, A.V., see Antonov, N.V. 241–243 (1997) 1190
Viaccoz, B., see Summers, D.D.R. 241–243 (1997) 391
Vieider, G., see Pacher, H.D. 241–243 (1997) 255
Vietzke, E., see Philipps, V. 241–243 (1997) 105
Vietzke, E., A. Refke, V. Philipps and M. Hennes, Energy distributions and yields of sputtered C_2 and C_3 clusters 241–243 (1997) 810
Vietzke, E., see Refke, A. 241–243 (1997) 1103
Vietzke, E., see Thiele, J.-U. 241–243 (1997) 1127
Vince, J., see Summers, D.D.R. 241–243 (1997) 391
Vittori, M., see Maddaluno, G. 241–243 (1997) 908
Vlases, G., G. Corrigan and A. Taroni, Lightly- or non-seeded, partially detached ITER divertor operation 241–243 (1997) 310
Vlases, G., see McCormick, G.K. 241–243 (1997) 444
Vlases, G.C., see Lowry, C.G. 241–243 (1997) 438
Volkov, E.D., see Glazunov, G.P. 241–243 (1997) 1052
Von Goeler, S., see Skinner, C.H. 241–243 (1997) 214
Von Halle, A., see Skinner, C.H. 241–243 (1997) 214
Von Hellermann, M., see Lowry, C.G. 241–243 (1997) 438
Von Seggern, J., see Philipps, V. 241–243 (1997) 105
Von Seggern, J., see Yagyu, J. 241–243 (1997) 579
Von Seggern, J., see Wienhold, P. 241–243 (1997) 804
Von Seggern, J., see Kögler, U. 241–243 (1997) 816

W7-AS-Team, see Grigull, P. 241–243 (1997) 935
W7-AS Team, see Sardei, F. 241–243 (1997) 135
W7-AS Team, see Zebisch, P. 241–243 (1997) 919
W7-AS Team, see Hildebrandt, D. 241–243 (1997) 950
Wada, M., see Unterberg, B. 241–243 (1997) 793
Wada, M., V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson, Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas 241–243 (1997) 799
Wada, M., see Tanabe, T. 241–243 (1997) 1164
Wade, M.R., see Schaffer, M.J. 241–243 (1997) 585
Wade, M.R., see Allen, S.L. 241–243 (1997) 595
Wade, M.R., see Hogan, J.T. 241–243 (1997) 612
Wade, M.R., see Petrie, T.W. 241–243 (1997) 639
Wade, M.R., see Fenstermacher, M.E. 241–243 (1997) 666
Wade, M.R., see Maingi, R. 241–243 (1997) 672
Wagner, F., see Sardei, F. 241–243 (1997) 135
Wagner, F., see Grigull, P. 241–243 (1997) 935
Wakatani, M., see Kondo, K. 241–243 (1997) 956
Wallura, E., see Linke, J. 241–243 (1997) 1210
Walsh, D., see Nygren, R. 241–243 (1997) 522
Walters, R.T., see Skinner, C.H. 241–243 (1997) 214
Wampler, W.R., see Bastasz, R. 241–243 (1997) 650
Wampler, W.R., see Jackson, G.L. 241–243 (1997) 655
Wampler, W.R., see Whyte, D.G. 241–243 (1997) 660
Wan, B., see Li, J. 241–243 (1997) 878
Wang, E.Y., see Peng, L.L. 241–243 (1997) 883
Wang, E.Y., see Hong, W.Y. 241–243 (1997) 1234
Wang, M., see Peng, L.L. 241–243 (1997) 883
Wang, W., V.Kh. Alimov, B.M.U. Scherzer and J. Roth, Deuterium trapping in and release from tungsten carbide 241–243 (1997) 1087
Wang, Y., see LaBombard, B. 241–243 (1997) 149
Wang, Y., see McCracken, G.M. 241–243 (1997) 777
Wang, Y., see Granetz, R.S. 241–243 (1997) 788
Watanabe, K., see Komori, A. 241–243 (1997) 967
Watanabe, K., see Ashida, K. 241–243 (1997) 1060
Watanabe, M., see Toyoda, H. 241–243 (1997) 1031
Watanabe, M., see Takiyama, K. 241–243 (1997) 1222
Watanabe, T., see Komori, A. 241–243 (1997) 967
Watkins, J.G., see Lasnier, C.J. 241–243 (1997) 623
Watkins, J.G., see Leonard, A.W. 241–243 (1997) 628
Watkins, J.G., see Moyer, R.A. 241–243 (1997) 633
Watkins, J.G., R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson, Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor 241–243 (1997) 645
Watkins, J.G., see Fenstermacher, M.E. 241–243 (1997) 666
Watterson, R., see LaBombard, B. 241–243 (1997) 149
Weaver, J., see LaBombard, B. 241–243 (1997) 149
Weinlich, M., see Bosch, H.-S. 241–243 (1997) 82
Weinlich, M., see Leonard, A.W. 241–243 (1997) 628
Weinlich, M., see Neu, R. 241–243 (1997) 678
Weinlich, M., see Krieger, K. 241–243 (1997) 684
Weinlich, M., see Pitcher, C.S. 241–243 (1997) 696
Weinlich, M., see Rohde, V. 241–243 (1997) 712
Weinlich, M., see Carlson, A. 241–243 (1997) 722
Weinlich, M., see Krieger, K. 241–243 (1997) 734
Weisen, H., see Pitts, R.A. 241–243 (1997) 867
Welch, B., see LaBombard, B. 241–243 (1997) 149
Weller, A., see Hildebrandt, D. 241–243 (1997) 950
Wenyu, H., see Peng, Z. 241–243 (1997) 1008
Wenzel, U., see Neu, R. 241–243 (1997) 678
Wenzel, U., see Naujoks, D. 241–243 (1997) 707
Wenzel, U., A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek, Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas 241–243 (1997) 728
Weschenfelder, F., see Philipps, V. 241–243 (1997) 105
Weschenfelder, F., see Wienhold, P. 241–243 (1997) 804
Weschenfelder, F., see Kögler, U. 241–243 (1997) 816
Weschenfelder, F., see Mank, G. 241–243 (1997) 821
Weschenfelder, F., see Pospieszczyk, A. 241–243 (1997) 833
Weschenfelder, F., see Esser, H.G. 241–243 (1997) 861
Wesley, J., see Putvinski, S. 241–243 (1997) 316
West, P., see Matthews, G.F. 241–243 (1997) 450
West, W.P., see Ali Mahdavi, M. 241–243 (1997) 305
West, W.P., see Schaffer, M.J. 241–243 (1997) 585
West, W.P., see Allen, S.L. 241–243 (1997) 595
West, W.P., see Jackson, G.L. 241–243 (1997) 618
West, W.P., see Leonard, A.W. 241–243 (1997) 628
West, W.P., see Petrie, T.W. 241–243 (1997) 639
West, W.P., see Bastasz, R. 241–243 (1997) 650
West, W.P., see Jackson, G.L. 241–243 (1997) 655
West, W.P., see Whyte, D.G. 241–243 (1997) 660
West, W.P., see Fenstermacher, M.E. 241–243 (1997) 666

Weynants, R., see Höthker, K. 241–243 (1997) 839
Whaley, J.A., see Bastasz, R. 241–243 (1997) 650
White, R.B., see Skinner, C.H. 241–243 (1997) 214
Whyte, D.G., see Ali Mahdavi, M. 241–243 (1997) 305
Whyte, D.G., see Schaffer, M.J. 241–243 (1997) 585
Whyte, D.G., see Evans, T.E. 241–243 (1997) 606
Whyte, D.G., see Jackson, G.L. 241–243 (1997) 618
Whyte, D.G., see Bastasz, R. 241–243 (1997) 650
Whyte, D.G., see Jackson, G.L. 241–243 (1997) 655
Whyte, D.G., J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein, DiMES divertor erosion experiments on DIII-D 241–243 (1997) 660
Whyte, D.G., see Fenstermacher, M.E. 241–243 (1997) 666
Wienhold, P., see Philipps, V. 241–243 (1997) 105
Wienhold, P., F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter, Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry 241–243 (1997) 804
Wienhold, P., see Kögler, U. 241–243 (1997) 816
Wienhold, P., see Mank, G. 241–243 (1997) 821
Wienhold, P., see Rubel, M. 241–243 (1997) 1026
Wilson, C.T., see Komori, A. 241–243 (1997) 967
Wilson, J.R., see Skinner, C.H. 241–243 (1997) 214
Winston, J., see Skinner, C.H. 241–243 (1997) 214
Winter, J., see Philipps, V. 241–243 (1997) 105
Winter, J., see Wada, M. 241–243 (1997) 799
Winter, J., see Wienhold, P. 241–243 (1997) 804
Winter, J., see Kögler, U. 241–243 (1997) 816
Winter, J., see Mank, G. 241–243 (1997) 821
Winter, J., see Esser, H.G. 241–243 (1997) 861
Wising, F., S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken, Simulation of plasma flux detachment in Alcator C-Mod and ITER 241–243 (1997) 273
Wobig, H., see Renner, H. 241–243 (1997) 946
Wolf, R., see Sardei, F. 241–243 (1997) 135
Wolf, R., see Grigull, P. 241–243 (1997) 935
Wolf, R., see Hildebrandt, D. 241–243 (1997) 950
Wolfe, S., see LaBombard, B. 241–243 (1997) 149
Won, J., F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn, Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment 241–243 (1997) 1110
Wong, C.P.C., see Bastasz, R. 241–243 (1997) 650
Wong, C.P.C., see Whyte, D.G. 241–243 (1997) 660
Wong, K.L., see Skinner, C.H. 241–243 (1997) 214
Wood, R.D., see Ali Mahdavi, M. 241–243 (1997) 305
Wood, R.D., see Schaffer, M.J. 241–243 (1997) 585
Wood, R.D., see Allen, S.L. 241–243 (1997) 595
Wood, R.D., see Jackson, G.L. 241–243 (1997) 618
Wood, R.D., see Fenstermacher, M.E. 241–243 (1997) 666
Wu, C.H., see Federici, G. 241–243 (1997) 260
Wu, C.H., see Coad, J.P. 241–243 (1997) 408
Wu, M., see Li, J. 241–243 (1997) 878
Wu, Z., see Li, J. 241–243 (1997) 878
Wunderlich, R., see Coster, D.P. 241–243 (1997) 690
Würz, H., see Koniges, A.E. 241–243 (1997) 244

Xu, W., see Li, J. 241–243 (1997) 878

Yagyu, J., N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto, Properties of thin boron coatings formed during deuterated-boronization in JT-60 241–243 (1997) 579
Yamada, H., see Komori, A. 241–243 (1997) 967
Yamada, H., see Morisaki, T. 241–243 (1997) 977
Yamada, I., see Sagara, A. 241–243 (1997) 972
Yamada, I., see Morisaki, T. 241–243 (1997) 977
Yamaguchi, K., see Bandourko, V. 241–243 (1997) 1071
Yamaguchi, N., see Nakashima, Y. 241–243 (1997) 1011
Yamaki, T., Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh, Erosion and thermal desorption characteristics of 1D-CF/B_4C composite 241–243 (1997) 1132
Yamamoto, S., see Yagyu, J. 241–243 (1997) 579
Yamashina, T., see Yamauchi, Y. 241–243 (1997) 1016
Yamashina, T., see Tsuzuki, K. 241–243 (1997) 1055
Yamashina, T., see Yanagihara, H. 241–243 (1997) 1098
Yamashina, T., see Fujita, I. 241–243 (1997) 1185
Yamauchi, Y., T. Hino, K. Koyama, Y. Hirohata and T. Yamashina, Hydrogen retention properties of low Z and high Z plasma facing materials 241–243 (1997) 1016
Yamauchi, Y., see Yanagihara, H. 241–243 (1997) 1098
Yamawaki, M., see Bandourko, V. 241–243 (1997) 1071
Yanagihara, H., Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina, Helium retention properties of plasma facing materials 241–243 (1997) 1098
Yang, S.K., see Peng, L.L. 241–243 (1997) 883
Yang, S.K., see Hong, W.Y. 241–243 (1997) 1234
Yatsu, K., see Nakashima, Y. 241–243 (1997) 1011
Ye, M.Y., S. Takamura and N. Ohno, Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I 241–243 (1997) 1243
Yin, F., see Li, J. 241–243 (1997) 878
Yin, F.X., see Li, J. 241–243 (1997) 878
Yoshida, N., see Tokunaga, K. 241–243 (1997) 1197
Yoshidome, T., see Ito, Y. 241–243 (1997) 1122
Yoshikawa, M., see Nakashima, Y. 241–243 (1997) 1011
Young, K.M., see Skinner, C.H. 241–243 (1997) 214
Yunze, Z., see Peng, Z. 241–243 (1997) 1008
Yushmanov, P., see Sugihara, M. 241–243 (1997) 299

Zabiégo, M., see Turlur, S. 241–243 (1997) 548
Zaccaria, P., see Sonato, P. 241–243 (1997) 982
Zagórski, R., see Leigheb, M. 241–243 (1997) 914

Zakharov, A.P., A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin, Hydrogen retention in plasma-facing materials and its consequences on tokamak operation 241–243 (1997) 52
Zakharov, A.P., see Alimov, V.Kh. 241–243 (1997) 1047
Zarnstorff, M.C., see Skinner, C.H. 241–243 (1997) 214
Zarnstorff, M.C., see Bush, C.E. 241–243 (1997) 892
Zastrow, K.-D., see Günther, K. 241–243 (1997) 462
Zebisch, P., P. Grigull, V. Dose, E. Taglauer and W7-AS Team, Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis 241–243 (1997) 919
Zeng, C., see Peng, Z. 241–243 (1997) 1008
Zhang, W., see Terreault, B. 241–243 (1997) 755
Zhang, X.D., see Grigull, P. 241–243 (1997) 935
Zhao, J.Y., see Li, J. 241–243 (1997) 878
Zhitlukhin, A., see Hassanein, A. 241–243 (1997) 288
Zohm, H., see Leonard, A.W. 241–243 (1997) 628
Zollino, G., see Sonato, P. 241–243 (1997) 982
Zushi, H., see Kondo, K. 241–243 (1997) 956
Zushi, H., see Sano, F. 241–243 (1997) 961
Zuzak, W., see Maingi, R. 241–243 (1997) 672
Zuzak, W., see Stansfield, B.L. 241–243 (1997) 739
Zuzak, W.W., see Terreault, B. 241–243 (1997) 755
Zuzak, W.W., see Richard, N. 241–243 (1997) 760
Zweben, S.J., see Skinner, C.H. 241–243 (1997) 214

ELSEVIER

Journal of Nuclear Materials 241–243 (1997) 1277–1313

journal of nuclear materials

Subject index

Aluminum, Aluminum Alloys and Compounds

Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160

Amorphization and Amorphous Materials

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036

Analytical Instruments and Methods

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047

Beryllium, Beryllium Alloys and Compounds

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Erosion lifetime of ITER divertor plates, H.D. Pacher, I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell and JET Team 241–243 (1997) 379

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041

Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov,

V.M. Gureev, Yu.V. Martinenko, V.E. Neumoin and V.G. Stoljarova 241–243 (1997) 1117
Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot Jr. 241–243 (1997) 1170

Carbon

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis and The TORE-SUPRA team 241–243 (1997) 27
Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37
Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52
Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold, J. Winter and the TEXTOR team 241–243 (1997) 105
A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214
Erosion lifetime of ITER divertor plates, H.D. Pacher, I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255
Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294
Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell and JET Team 241–243 (1997) 379
Plasma-surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511
Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574
Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579
Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612
Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W.

Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666
Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 684
Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765
A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788
Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810
Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833
Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848
Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867
Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887
Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946
Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988
Wall conditioning and particle control in Extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993
In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022
Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026
Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036
Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060
Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065
Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093
Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103
Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132
Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142
Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147
Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W.

Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152
Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156
Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180
Thermal response for divertor mock-up using surface-modified CFC tile, I. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsuda and K. Kuroda 241–243 (1997) 1185

Cavities *(includes Voids, Holes)*
Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Ceramics *(not listed elsewhere)*
Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Chemical Reactions *(includes Electrochemical and Thermochemical Reactions)*
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574
Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579
Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060
Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127
Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

Cladding Materials
The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

Coatings and Coated Particles
Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579
Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655
High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.G. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750
ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team 241–243 (1997) 861
Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892
Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908
Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972
The first results of siliconization on SWIP-RFP device, Z. Peng, L.

Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008
Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031
Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055
Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122
Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Composite Materials

Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142
Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175

Copper, Copper Alloys and Compounds

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis and The TORE-SUPRA team 241–243 (1997) 27
Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Defects and Defect Structures *(excludes by Irradiation)*

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

Diffusion

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260
Temperature profiles in stochastic boundaries, S. Féron and P. Ghendrih 241–243 (1997) 328
Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612
Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 734
A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788
Scaling of radiated power to plasma contamination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853
Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082
Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087
Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Divertor Materials

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37
A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion

devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227
Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244
Erosion lifetime of ITER divertor plates, H.D. Pacher, I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255
Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288
Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294
Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353
Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell and JET Team 241–243 (1997) 379
Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385
The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408
Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489
Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574
First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595
Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618
Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650
DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660
The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich, U. Wenzel, ASDEX Upgrade Team and ASDEX NI-Team 241–243 (1997) 678
Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 684
Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716
Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 734
In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821
Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P.

Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867
Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110
Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142
Examination of material performance of W exposed to high heat load: Post-mortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg 241–243 (1997) 1164
Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175
Thermal response for divertor mock-up using surface-modified CFC tile, I. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsuda and K. Kuroda 241–243 (1997) 1185
Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190
High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197
Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210
Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Electron Irradiation

High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197
Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Environmental Effects

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385
Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908
On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052
Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Experimental Techniques

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner, R. Wolf, W7-AS Team and NBI Group 241–243 (1997) 135
Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391
Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y.

Guo, J. Lingertat, G.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396
Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426
Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456
Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462
Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483
Plasma-surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511
Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538
Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553
Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645
Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 684
The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 722
Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760
Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782
Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, P. Mertens and M. Silz 241–243 (1997) 842
Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961
The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008
Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122
Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot Jr. 241–243 (1997) 1170
Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222
The fluctuations and flow velocities measured with a Mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Fatigue

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis and The TORE-SUPRA team 241–243 (1997) 27

First Wall Materials

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52
Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold, J. Winter and the TEXTOR team 241–243 (1997) 105
Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell and JET Team 241–243 (1997) 379
Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462
Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469
Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542
Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655
Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672
Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765
Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799
Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810
Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816
Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848
Effects of an RF limiter on TEXTOR's edge plasmas, J.A. Boedo, T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank, N. Noda and TEXTOR team 241–243 (1997) 857
ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team 241–243 (1997) 861
Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878
Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897
Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961
Hydrogen retention properties of low Z and high Z plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016
In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022
Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031
Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041
Depth distribution of deuterium atoms and molecules in beryllium im-

planted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047
On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052
Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055
Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076
Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082
Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103
Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127
Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152
Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156
Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175
Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180
The fluctuations and flow velocities measured with a Mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Fracture and Fracture Toughness

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.G. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Fuels and Fuel Elements

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476
Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Fusion Reactors

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici, P. Ladd, ITER Joint Central Team and Home Teams 241–243 (1997) 1
Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68
Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer, M. Weinlich, ASDEX Upgrade team and NBI team 241–243 (1997) 82
Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92
Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118
Classical drifts in the tokamak SOL and divertor: models and experiment, A.V. Chankin 241–243 (1997) 199
Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. La-

Marche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Wall effects on electron dynamics in the SOL, P. Helander, S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov 241–243 (1997) 278

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

Stability of a radiative mantle in ITER, M. Ali Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Impurity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Temperature profiles in stochastic boundaries, S. Féron and P. Ghendrih 241–243 (1997) 328

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, G.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby,

K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450
Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462
Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476
Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489
Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494
Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505
Plasma-surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511
Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532
Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542
Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553
Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564
Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590
Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606
Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618
Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645
Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650
Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer, M. Weinlich, ASDEX Upgrade Team and NBI Group 241–243 (1997) 696
Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, M. Goniche, P. Jacquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745
Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755
On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827
ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team 241–243 (1997) 861
Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with

lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892
Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897
Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose, E. Taglauer and W7-AS Team 241–243 (1997) 919
Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925
Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998
Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002
Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011
In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022
Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036
Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041
Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Gases *(excludes Hydrogen, Helium and Tritium)* **in Materials**

Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883
Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055
Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Grain Boundaries

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

Heat Treatment

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Helium

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68
Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299
Density threshold for plasma detachment in gas target, N. Ezumi, S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park 241–243 (1997) 349
Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426
Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489
B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, ASDEX Upgrade Team, B.J. Braams and D. Reiter 241–243 (1997) 690
Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827
Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883
Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098
Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222
A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Hydrogen and Hydrides *(includes Deuterium and Deuterides)*

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342
The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408
Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456
Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462
Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476
Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553
Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569
Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579
Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618
Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672
Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716
Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833
Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, P. Mertens and M. Silz 241–243 (1997) 842
Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887
Hydrogen retention properties of low Z and high Z plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016
Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026
Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031
Depth distribution of deuterium atoms and molecules in beryllium im-

planted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047
Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055
Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065
Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy, V. Bandourko, K. Ohkoshi, K. Yamaguchi and M. Yamawaki 241–243 (1997) 1071
Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076
Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082
Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087
Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147
Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot Jr. 241–243 (1997) 1170
Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175
Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203
Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217
A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Impurities

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92
Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118
A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182
Stability of a radiative mantle in ITER, M. Ali Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305
Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333
Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363
Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385
Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414
Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505
Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574

Direct measurement of divertor exhaust neon enrichment in DIII. -D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, ASDEX Upgrade Team, B.J. Braams and D. Reiter 241–243 (1997) 690

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer, M. Weinlich, ASDEX Upgrade Team and NBI Group 241–243 (1997) 696

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Rusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827

Scaling of radiated power to plasma contamination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team 241–243 (1997) 861

Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose, E. Taglauer and W7-AS Team 241–243 (1997) 919

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hof-

mann, G. Kühner, D. Naujoks, F. Sardei, A. Weller, R. Wolf, W7-AS Team, ECRH Team and NBI Team 241–243 (1997) 950

Behavior of pellet injected Li into Heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Y. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Interfaces

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203

Ion Irradiation

Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469

Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

Hydrogen retention properties of low Z and high Z plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016

In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022

Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026

Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047

Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Neumoin and V.G. Stoljarova 241–243 (1997) 1117

Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142

Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Joining

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis and The TORE-SUPRA team 241–243 (1997) 27

Kinetics

Wall effects on electron dynamics in the SOL, P. Helander, S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov 241–243 (1997) 278

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363

Kinetic simulation of parallel transport and ELM propagation in the Alcator C-Mod tokamak, O.V. Batishchev, A.A. Batishcheva, P.J. Catto, S.I. Krasheninnikov, B. LaBombard, B. Lipschultz and D.J. Sigmar 241–243 (1997) 374

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Laser

Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, P. Mertens and M. Silz 241–243 (1997) 842

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

Limiter Materials

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.G. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Examination of material performance of W exposed to high heat load: Post-mortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg 241–243 (1997) 1164

Liquid Metals

Behavior of pellet injected Li into Heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Y. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada,

T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956
Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031
Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Mathematical and Computational Methods

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118
Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner, R. Wolf, W7-AS Team and NBI Group 241–243 (1997) 135
Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288
Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342
Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353
Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358
Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369
Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739
Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose, E. Taglauer and W7-AS Team 241–243 (1997) 919
Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925
Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot Jr. 241–243 (1997) 1170
A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Metals, Alloys and Compounds *(not listed elsewhere)*

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Moderator and Reflector Materials

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353
Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Molybdenum, Molybdenum Alloys and Compounds

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227
Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878
Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076
Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098

High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197

Monitoring Methods

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Nickel, Nickel Alloys and Compounds

Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098

Niobium, Niobium Alloys and Compounds

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203

Optical Microscopy

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Permeation

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy, V. Bandourko, K. Ohkoshi, K. Yamaguchi and M. Yamawaki 241–243 (1997) 1071

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203

Phase Transformation *(includes Evaporation, Sublimation)*

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Thermal response for divertor mock-up using surface-modified CFC tile, I. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsuda and K. Kuroda 241–243 (1997) 1185

Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Physical Properties *(not listed elsewhere)*

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

Plasma–Materials Interaction

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis and The TORE-SUPRA team 241–243 (1997) 27

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92

Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold, J. Winter and the TEXTOR team 241–243 (1997) 105

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Density threshold for plasma detachment in gas target, N. Ezumi, S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park 241–243 (1997) 349

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell and JET Team 241–243 (1997) 379

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, G.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408
Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414
Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420
Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433
Deduction of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick, A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444
Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456
Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469
Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476
Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483
Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489
Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494
Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499
Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505
Plasma-surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511
Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517
Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522
Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532
Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538
Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542
Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564
Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574
Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe,

Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579
Direct measurement of divertor exhaust neon enrichment in DIII. -D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585
Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590
First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595
Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602
Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606
Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612
Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618
Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628
The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633
Reciprocating and fixed probe measurements of density and temperature in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645
Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650
Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655
DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660
Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666
Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672
The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich, U. Wenzel, ASDEX Upgrade Team and ASDEX NI-Team 241–243 (1997) 678

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer, M. Weinlich, ASDEX Upgrade Team and NBI Group 241–243 (1997) 696

Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink, U. Wenzel and PSI-group 241–243 (1997) 707

Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann, M. Weinlich and AUGD team 241–243 (1997) 712

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 722

Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas, U. Wenzel, A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek 241–243 (1997) 728

Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 734

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, M. Goniche, P. Jacquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765

Modification and control of divertor detachment in Alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Rusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B.

Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816
In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821
Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833
Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, P. Mertens and M. Silz 241–243 (1997) 842
Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848
Scaling of radiated power to plasma contamination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853
Effects of an RF limiter on TEXTOR's edge plasmas, J.A. Boedo, T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank, N. Noda and TEXTOR team 241–243 (1997) 857
ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder, J. Winter and TEXTOR- and ICRH-team 241–243 (1997) 861
Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867
Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878
Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883
Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887
Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892
ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902
Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908
SOL parameters and local transport in the FTU tokamak, M. Leigheb, V. Pericoli Ridolfini and R. Zagórski 241–243 (1997) 914
Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose, E. Taglauer and W7-AS Team 241–243 (1997) 919
Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925
Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946
Behavior of pellet injected Li into Heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Y. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956
Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961
Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki,

N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972
Investigation of plasma facing components and vacuum vessel in RFX, P. Sonato, V. Antoni, M. Bagatin, W.R. Baker, S. Peruzzo, L. Tramontin, P. Zaccaria and G. Zollino 241–243 (1997) 982
Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988
Wall conditioning and particle control in Extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993
Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002
Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011
In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022
Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026
Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031
Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036
On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052
Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065
Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076
Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087
Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093
Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110
Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Neumoin and V.G. Stoljarova 241–243 (1997) 1117
Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127
Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142
Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147
Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152
Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160
Examination of material performance of W exposed to high heat load: Post-mortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg 241–243 (1997) 1164
Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y.

Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175
Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180
Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190
High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197
Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217
Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222
A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238
Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Plasma Properties *(includes Plasma Disruption)*

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68
Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer, M. Weinlich, ASDEX Upgrade team and NBI team 241–243 (1997) 82
Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118
Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner, R. Wolf, W7-AS Team and NBI Group 241–243 (1997) 135
Experimental investigation of transport phenomena in the scrape-off layer and divertor, B. LaBombard, J.A. Goetz, I. Hutchinson, D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe 241–243 (1997) 149
A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182
Classical drifts in the tokamak SOL and divertor: models and experiment, A.V. Chankin 241–243 (1997) 199
Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt,

J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Stability of a radiative mantle in ITER, M. Ali Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Impurity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Density threshold for plasma detachment in gas target, N. Ezumi, S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park 241–243 (1997) 349

Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Kinetic simulation of parallel transport and ELM propagation in the Alcator C-Mod tokamak, O.V. Batishchev, A.A. Batishcheva, P.J. Catto, S.I. Krasheninnikov, B. LaBombard, B. Lipschultz and D.J. Sigmar 241–243 (1997) 374

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Deduction of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick, A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450

Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456

Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D.J. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

Plasma-surface interactions with ICRF antennas and lower hybrid grills in

Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511

Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517

Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Direct measurement of divertor exhaust neon enrichment in DIII. -D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602

Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628

The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov,

M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666
Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer, M. Weinlich, ASDEX Upgrade Team and NBI Group 241–243 (1997) 696
Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann, M. Weinlich and AUGD team 241–243 (1997) 712
The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 722
Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739
Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755
Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760
Modification and control of divertor detachment in Alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771
Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782
A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. LaBombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788
Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839
Radial distributions and poloidal asymmetries of T-10 SOL parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873
Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883
Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892
ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902
Experimental study on highly collisional edge plasmas in W7-AS island divertor configurations, P. Grigull, D. Hildebrandt, F. Sardei, Y. Feng, G. Herre, A. Herrmann, J.V. Hofmann, J. Kisslinger, G. Kuehner, H. Niedermeyer, R. Schneider, H. Verbeek, F. Wagner, R. Wolf, X.D. Zhang, W7-AS-Team and NBI-Group 241–243 (1997) 935
Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller, R. Wolf, W7-AS Team, ECRH Team and NBI Team 241–243 (1997) 950
Behavior of pellet injected Li into Heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Y. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956
Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H.

Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961
Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967
Experimental study of edge plasma structure in various discharges on compact helical system, T. Morisaki, A. Komori, R. Akiyama, H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima 241–243 (1997) 977
Wall conditioning and particle control in Extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993
Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998
Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011
Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210
Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228
The fluctuations and flow velocities measured with a Mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Polymers

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, M. Goniche, P. Jacquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

Radiation Effects: Extended Defects, Microstructures

Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Radiation Effects: Physical Properties

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Radiation Sources

Stability of a radiative mantle in ITER, M. Ali Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Redeposition

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385
Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 734
Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804
Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816
Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897
Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K.

Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Silicon and Silicon Compounds

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821
The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008
Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036
Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160
Thermal response for divertor mock-up using surface-modified CFC tile, I. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsuda and K. Kuroda 241–243 (1997) 1185

Surface Effects

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37
Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold, J. Winter and the TEXTOR team 241–243 (1997) 105
A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182
Erosion lifetime of ITER divertor plates, H.D. Pacher, I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255
Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288
Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469
Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553
Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650
DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660
The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich, U. Wenzel, ASDEX Upgrade Team and ASDEX NI-Team 241–243 (1997) 678
Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 684
Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink, U. Wenzel and PSI-group 241–243 (1997) 707
Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716
Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765
Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804
Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

Wall conditioning and particle control in Extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026

Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Neumoin and V.G. Stoljarova 241–243 (1997) 1117

Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122

Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127

Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152

Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156

Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160

Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot Jr. 241–243 (1997) 1170

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A.

Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203
Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Theory and Modelling

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner, R. Wolf, W7-AS Team and NBI Group 241–243 (1997) 135
A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
Classical drifts in the tokamak SOL and divertor: models and experiment, A.V. Chankin 241–243 (1997) 199
The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260
2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268
Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273
Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283
Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299
Stability of a radiative mantle in ITER, M. Ali Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305
Impurity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316
Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322
Temperature profiles in stochastic boundaries, S. Féron and P. Ghendrih 241–243 (1997) 328
Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333
Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342
Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353
Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358
Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369
Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391
Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402
Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433
Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494
Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499
Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517
Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.G. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarinov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, ASDEX Upgrade Team, B.J. Braams and D. Reiter 241–243 (1997) 690

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink, U. Wenzel and PSI-group 241–243 (1997) 707

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Experimental study on highly collisional edge plasmas in W7-AS island divertor configurations, P. Grigull, D. Hildebrandt, F. Sardei, Y. Feng, G. Herre, A. Herrmann, J.V. Hofmann, J. Kisslinger, G. Kuehner, H. Niedermeyer, R. Schneider, H. Verbeek, F. Wagner, R. Wolf, X.D. Zhang, W7-AS-Team and NBI-Group 241–243 (1997) 935

A 2D approach to island divertor modelling for Wendelstein 7-AS, G. Herre, R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigull and J. Kisslinger 241–243 (1997) 941

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihin, L.G. Golubchikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Thermal Shock

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.G. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Examination of material performance of W exposed to high heat load: Post-mortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg 241–243 (1997) 1164

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Thermophysical Properties

High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y.

Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197

Titanium, Titanium Alloys and Compounds

Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy, V. Bandourko, K. Ohkoshi, K. Yamaguchi and M. Yamawaki 241–243 (1997) 1071
Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160
Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Tritium and Tritides

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amarescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214
The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260
Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294
Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887
Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892
Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897
Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041
Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Tungsten, Tungsten Alloys and Compounds

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52
A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227
Erosion lifetime of ITER divertor plates, H.D. Pacher, I. Smid, G. Federici, Y. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255
The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M.

Weinlich, U. Wenzel, ASDEX Upgrade Team and ASDEX NI-Team 241–243 (1997) 678
Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 684
Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Hermann, R. Neu, J. Roth, A. Thoma, M. Weinlich and ASDEX Upgrade Team 241–243 (1997) 734
High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.G. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750
Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Rusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793
Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799
Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908
Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076
Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082
Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087
Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098
Examination of material performance of W exposed to high heat load: Post-mortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Unterberg 241–243 (1997) 1164
Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Journal of Nuclear Materials 241–243 (1997) 1314–1348

Subject index for PSI-12

Active Pumping

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68

Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer and M. Weinlich 241–243 (1997) 82

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494

Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505

Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612

Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203

Analytic 1D Model

Temperature profiles in stochastic boundaries, S. Féron and Ph. Ghendrih 241–243 (1997) 328

Analytical Model

Classical drifts in the tokamak sol and divertor: Models and experiment, A.V. Chankin 241–243 (1997) 199

Wall effects on electron dynamics in the SOL, P. Helander, S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov 241–243 (1997) 278

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

Stability of a radiative mantle in ITER, M.A. Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer and M. Weinlich 241–243 (1997) 696

Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink and U. Wenzel 241–243 (1997) 707

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Atomic Physics

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

Atomic Physics (continued)

A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

B_4C

Thermal response for divertor mock-up using surface-modified CFC tile, L. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsudas and K. Kurodas 241–243 (1997) 1185

Beryllium

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot, Jr. 241–243 (1997) 1170

Biasing

Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing, J. Hara, Y. Uesugi, Y. Miura and H. Kawashima 241–243 (1997) 338

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

Bifurcation and Multistate Solutions

Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Boronization

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

Boundary MHD

ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946

Boundary Plasma

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

Stability of a radiative mantle in ITER, M.A. Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, Ph. Mertens and M. Silz 241–243 (1997) 842

Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883

ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902

Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn,

Boundary Plasma (continued)

S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller and R. Wolf 241–243 (1997) 950

Experimental study of edge plasma structure in various discharges on compact helical system, T. Morisaki, A. Komori, R. Akiyama, H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima 241–243 (1997) 977

Wall conditioning and particle control in extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Plasma–surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511

Carbon

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Carbon Fibre Composites

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Chemical Erosion

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold and J. Winter 241–243 (1997) 105

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167

Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385

Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127

Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, Y. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152

Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Density Limit

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D. Campbell, L.D. Horton,

Density Limit (continued)

A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

Desorption

Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder and J. Winter 241–243 (1997) 861

Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036

Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, Y. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022

Detached Plasma

Study of recombining gas targets, K. Borrass, D. Coster, D. Reiter and R. Schneider 241–243 (1997) 250

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

Density threshold for plasma detachment in gas target, N. Ezumi, S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park 241–243 (1997) 349

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, O.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633

Investigation of electron parallel pressure balance in the scrape-off layer of deuterium-based radiative divertor discharges in DIII-D, T.W. Petrie, S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher, R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West 241–243 (1997) 639

Detached Plasma (continued)

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Modification and control of divertor detachment in alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771

1D Model

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

Effect of magnetic field stochastization on impurity behavior in a tokamak, M.Z. Tokar', H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm 241–243 (1997) 528

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer and M. Weinlich 241–243 (1997) 696

2D Model

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268

Lightly- or non-seeded, partially detached ITER divertor operation, G. Vlases, G. Corrigan and A. Taroni 241–243 (1997) 310

Impulity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Derivation of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick, A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

A 2D approach to island divertor modelling for Wendelstein 7-AS, G. Herre, R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigrull and J. Kißlinger 241–243 (1997) 941

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946

3D Model

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner and R. Wolf 241–243 (1997) 135

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Director Detachment

Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas, U. Wenzel, A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek 241–243 (1997) 728

Disruptions

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Impulity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Edge MHD activity in the ergodic divertor configuration of Tore Supra, S. Turlur, E. Joffrin, M. Zabiégo, Ph. Ghendrih and A. Grosman 241–243 (1997) 548

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Divertor Exhaust

Direct measurement of divertor exhaust neon enrichment in DIII-D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Divertor Modelling

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici and P. Ladd 241–243 (1997) 1

Divertor Plasma

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner and R. Wolf 241–243 (1997) 135

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Classical drifts in the tokamak sol and divertor: Models and experiment, A.V. Chankin 241–243 (1997) 199

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Lightly- or non-seeded, partially detached ITER divertor operation, G. Vlases, G. Corrigan and A. Taroni 241–243 (1997) 310

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing, J. Hara, Y. Uesugi, Y. Miura and H. Kawashima 241–243 (1997) 338

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, O.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414

Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski,

Divertor Plasma (continued)

L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456

Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Investigation of electron parallel pressure balance in the scrape-off layer of deuterium-based radiative divertor discharges in DIII-D, T.W. Petrie, S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher, R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West 241–243 (1997) 639

Reciprocating and fixed probe measurements of n_e and T_e in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer and M. Weinlich 241–243 (1997) 696

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Modification and control of divertor detachment in alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771

Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967

A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Divertor Plate

Thermal response for divertor mock-up using surface-modified CFC tile, L. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsudas and K. Kurodas 241–243 (1997) 1185

Divertor Simulator

Density threshold for plasma detachment in gas target, N. Ezumi, S. Mori, N. Ohno, M. Takagi, S. Takamura, H. Suzuki and J. Park 241–243 (1997) 349

Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483

Plasma–neutral interaction in thermally collapsed plasma, J. Park, T.K. Bennett, M.J. Goeckner and S.A. Cohen 241–243 (1997) 489

Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Edge Localised Modes (ELM)

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628

Reciprocating and fixed probe measurements of n_e and T_e in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, B.J. Braams and D. Reiter 241–243 (1997) 690

Electric Potential

Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998

Electric Potential and Current

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing, J. Hara, Y. Uesugi, Y. Miura and H. Kawashima 241–243 (1997) 338

Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde and M. Weinlich 241–243 (1997) 722

Electric Potential and Current Radial Electric Field

Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann and M. Weinlich 241–243 (1997) 712

Energy Balance

Stability of a radiative mantle in ITER, M.A. Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Temperature profiles in stochastic boundaries, S. Féron and Ph. Ghendrih 241–243 (1997) 328

Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Energy Deposition

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis 241–243 (1997) 27

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell 241–243 (1997) 379

Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, P. Jaquet, C. Boucher, A. Côté,

Energy Deposition (continued)

C. Côté, J. Gunn, B. Terreault, M. Goniche, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902

Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Uterberg 241–243 (1997) 1164

Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihins, L.G. Golubehikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Ergodic Divertor

Temperature profiles in stochastic boundaries, S. Féron and Ph. Ghendrih 241–243 (1997) 328

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505

Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517

Effect of magnetic field stochastization on impurity behavior in a tokamak, M.Z. Tokar', H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm 241–243 (1997) 528

Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532

Edge MHD activity in the ergodic divertor configuration of Tore Supra, S. Turlur, E. Joffrin, M. Zabiégo, Ph. Ghendrih and A. Grosman 241–243 (1997) 548

Erosion

Thermal response for divertor mock-up using surface-modified CFC tile, L. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsudas and K. Kurodas 241–243 (1997) 1185

Erosion and Particle Deposition

Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold and J. Winter 241–243 (1997) 105

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227

Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385

Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469

DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660

The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich and U. Wenzel 241–243 (1997) 678

Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Herrmann, R. Neu, J. Roth, A. Thoma and M. Weinlich 241–243 (1997) 734

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

Erosion and Particle Deposition (continued)

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

Investigation of plasma facing components and vacuum vessel in RFX, P. Sonato, V. Antoni, M. Bagatin, W.R. Baker, S. Peruzzo, L. Tramontin, P. Zaccaria and G. Zollino 241–243 (1997) 982

Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Erosion and Particle Deposition Diagnostic

Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469

Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma and M. Weinlich 241–243 (1997) 684

Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765

Fast Particle Losses

Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564

Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002

Fluid Simulation

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167

Study of recombining gas targets, K. Borrass, D. Coster, D. Reiter and R. Schneider 241–243 (1997) 250

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, B.J. Braams and D. Reiter 241–243 (1997) 690

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946

Fuel Recycling and Inventory

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Fusion

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

Fusion Technology

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis 241–243 (1997) 27

Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Netnnoin and V.G. Stoljarova 241–243 (1997) 1117

Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihins, L.G. Golubehikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov, V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Applications of superpermeable membranes in fusion: The flux density problem and experimental progress, A. Livshits, N. Ohyabu, M. Notkin, V. Alimov, H. Suzuki, A. Samartsev, M. Solovyov, I. Grigoriadi, A. Glebovsky, A. Busnyuk, A. Doroshin and K. Komatsu 241–243 (1997) 1203

Gas Puffing

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

Graphite

Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

H-Alpha Line Emission

Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011

He-Exhaust

On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827

Helical Divertor

Experimental study on highly collisional edge plasmas in W7-AS island divertor configurations, P. Grigull, D. Hildebrandt, F. Sardei, Y. Feng, G. Herre, A. Herrmann, J.V. Hofmann, J. Kisslinger, G. Kuehner, H. Niedermeyer, R. Schneider, H. Verbeek, F. Wagner, R. Wolf and X.D. Zhang 241–243 (1997) 935

A 2D approach to island divertor modelling for Wendelstein 7-AS, G. Herre, R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigrull and J. Kißlinger 241–243 (1997) 941

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946

Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961

Helium Exhaust and Control

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68

Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer and M. Weinlich 241–243 (1997) 82

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amerescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, B.J. Braams and D. Reiter 241–243 (1997) 690

Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883

High Heat Load

Thermal response for divertor mock-up using surface-modified CFC tile, L. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsudas and K. Kurodas 241–243 (1997) 1185

High-*Z* Wall Material

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich and U. Wenzel 241–243 (1997) 678

Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma and M. Weinlich 241–243 (1997) 684

High-Z Wall Material (continued)

Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Herrmann, R. Neu, J. Roth, A. Thoma and M. Weinlich 241–243 (1997) 734

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.O. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908

Hydrogen retention properties of low Z and high Z plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016

Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy, V. Bandourko, K. Ohkoshi, K. Yamaguchi and M. Yamawaki 241–243 (1997) 1071

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087

Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098

Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Uterberg 241–243 (1997) 1164

High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Study of hot tungsten emissive plate in high heat flux plasma on NAGDIS-I, M.Y. Ye, S. Takamura and N. Ohno 241–243 (1997) 1243

Hydrocarbons

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Hydrogen

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, Ph. Mertens and M. Silz 241–243 (1997) 842

Improved Confinement Mode

Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer and M. Weinlich 241–243 (1997) 82

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

Modification and control of divertor detachment in alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771

Scaling of radiated power to plasma contarnination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902

Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

Impurity
Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925

Impurity Radiation
Effect of magnetic field stochastization on impurity behavior in a tokamak, M.Z. Tokar', H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm 241–243 (1997) 528

Impurity Seeding
On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827

Impurity Source
Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37
A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227
Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255
Impulity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316
Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385
Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462
Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469
Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574
Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Pusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793
Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799
Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878
Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose and E. Taglauer 241–243 (1997) 919
Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988
Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160
High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197

Impurity Transport
Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer and M. Weinlich 241–243 (1997) 82
Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92
A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167
A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227
Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363
Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414
Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420
Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450
Effect of magnetic field stochastization on impurity behavior in a tokamak, M.Z. Tokar', H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm 241–243 (1997) 528
Direct measurement of divertor exhaust neon enrichment in DIII-D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585
Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James,

Impurity Transport (continued)

R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich and U. Wenzel 241–243 (1997) 678

Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Herrmann, R. Neu, J. Roth, A. Thoma and M. Weinlich 241–243 (1997) 734

Modification and control of divertor detachment in alcator C-Mod, B. Lipschultz, J.A. Goetz, B. LaBombard, G.M. McCracken, H. Ohkawa, Y. Takase and J.L. Terry 241–243 (1997) 771

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. Labombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

Scaling of radiated power to plasma contarnination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853

Behavior of pellet injected Li into heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Yu. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Island Divertor

Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967

Kinetic Analysis

Wall effects on electron dynamics in the SOL, P. Helander, S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov 241–243 (1997) 278

Kinetic analysis on impurity control and reduction of power transmission of a divertor plasma, K. Sato and S. Kameda 241–243 (1997) 333

Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363

Kinetic simulation of parallel transport and ELM propagation in the Alcator C-Mod tokamak, O.V. Batishchev, A.A. Batishcheva, P.J. Catto, S.I. Krasheninnikov, B. LaBombard, B. Lipschultz and D.J. Sigmar 241–243 (1997) 374

Langmuir Probe

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, O.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

Reciprocating and fixed probe measurements of n_e and T_e in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann and M. Weinlich 241–243 (1997) 712

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde and M. Weinlich 241–243 (1997) 722

Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

SOL parameters and local transport in the FTU tokamak, M. Leigheb, V. Pericoli Ridolfini and R. Zagórski 241–243 (1997) 914

Langmuir Probe (continued)

Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998

Laser-induced Fluorescence

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, Ph. Mertens and M. Silz 241–243 (1997) 842

Limiter

Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. Labombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Pusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Effects of a rf limiter on TEXTOR's edge plasmas, J.A. Boedo, T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank and N. Noda 241–243 (1997) 857

Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908

Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961

Experimental study of edge plasma structure in various discharges on compact helical system, T. Morisaki, A. Komori, R. Akiyama, H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima 241–243 (1997) 977

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Uterberg 241–243 (1997) 1164

Line Emission Diagnostic

Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Pusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

Impurity release from high Z test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen, U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887

Behavior of pellet injected Li into heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Yu. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122

Lithium

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor,

Lithium (continued)

D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

Low-*Z* Wall Material

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis 241–243 (1997) 27

Impurity release from low-*Z* materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell 241–243 (1997) 379

Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574

Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579

Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma and M. Weinlich 241–243 (1997) 684

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

Hydrogen retention properties of low *Z* and high *Z* plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016

Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031

Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036

Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041

Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047

Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Netnnoin and V.G. Stoljarova 241–243 (1997) 1117

Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122

Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127

Erosion and thermal desorption characteristics of 1D-CF/B_4C composite, T. Yamaki, Y. Suzuki, Y. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh 241–243 (1997) 1132

Effect of irradiation ion species on internal stress in boron thin films, N. Satomi, K. Tanaka, M. Kitamura and M. Nishikawa 241–243 (1997) 1138

Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142

Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156

Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Experimental and calculated basis of the lithium capillary system as divertor material, N.V. Antonov, V.G. Belan, V.A. Evtihins, L.G. Golubehikov, V.I. Khripunov, V.M. Korjavin, I.E. Lyublinski, V.S. Maynashev, V.B. Petrov, V.I. Pistunovich, V.A. Pozharov,

Low-Z Wall Material (continued)

V.I. Podkovirnov, V.V. Shapkin and A.V. Vertkov 241–243 (1997) 1190

Performance of beryllium, carbon, and tungsten under intense thermal fluxes, J. Linke, M. Akiba, H. Bolt, G. Breitbach, R. Duwe, A. Makhankov, I. Ovchinnikov, M. Rödig and E. Wallura 241–243 (1997) 1210

Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022

MARFE

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas, U. Wenzel, A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek 241–243 (1997) 728

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller and R. Wolf 241–243 (1997) 950

Mass Spectrometry

Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose and E. Taglauer 241–243 (1997) 919

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Material Probe

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Molecular Break-up

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Momentum Balance

Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839

Momentum Sink

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353

Investigation of electron parallel pressure balance in the scrape-off layer of deuterium-based radiative divertor discharges in DIII-D, T.W. Petrie, S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher, R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West 241–243 (1997) 639

Monte Carlo Simulation

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Modelling of plasma momentum transference to side-walls by neutral particles, G.P. Maddison, D. Reiter and J. Hugill 241–243 (1997) 353

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast,

Monte Carlo Simulation (continued)

A. Kallenbach, R. Dux, G. Becker, B.J. Braams and D. Reiter 241–243 (1997) 690

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883

Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887

Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011

Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot, Jr. 241–243 (1997) 1170

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Negative Central Shear

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

Neoclassical Transport

Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839

Neutral Confinement and Transport

Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer, A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839

Neutral Particle Diagnostic

Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456

Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, Ph. Mertens and M. Silz 241–243 (1997) 842

Spectroscopic measurement of kinetic energy of sputtered boron in electron cyclotron resonance plasma, Y. Ito, N. Nakano, T. Yoshidome, M. Isobe and M. Nishikawa 241–243 (1997) 1122

Neutral Transport

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

Neutral Transport and Confinement

Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011

Non-local Transport

Wall effects on electron dynamics in the SOL, P. Helander, S.I. Krasheninnikov, N. Kuzmicheva and A.P. Smirnov 241–243 (1997) 278

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Oxygen Retention

Retention and erosion behavior of oxygen implanted in different Si/C-materials, A. Refke, V. Philipps and E. Vietzke 241–243 (1997) 1103

Particle and Energy Balance

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Particle Balance

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494

Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672

Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002

Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065

Particle Confinement

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Particle Fuelling

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602

Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867

Particle Reflection

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Pusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

Particle Transport and Confinement

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602

The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633

Pellet Injection

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

Physical Erosion

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold and J. Winter 241–243 (1997) 105

Physical Erosion (continued)

A review on impurity transport in divertors, K. Shimizu, T. Takizuka and A. Sakasai 241–243 (1997) 167

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.O. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Energy distributions and yields of sputtered C_2 and C_3 clusters, E. Vietzke, A. Refke, V. Philipps and M. Hennes 241–243 (1997) 810

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder and J. Winter 241–243 (1997) 861

Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Netnnoin and V.G. Stoljarova 241–243 (1997) 1117

Sputtering experiments on B_4C doped CFC under high particle flux with low energy, K. Nakamura, M. Dairaku, M. Akiba and Y. Okumura 241–243 (1997) 1142

Angle resolved velocity distributions of sputtered medium Z atoms, A. Goehlich, N. Niemöller and H.F. Döbele 241–243 (1997) 1160

High heat load properties of TiC dispersed Mo alloys, K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano 241–243 (1997) 1197

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

Physical Sputtering

Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156

Plasma Density and Temperature Diagnostic

Parallel electron temperature and density gradients measured in the JET MkI divertor using thermal helium beams, S.J. Davies, P.D. Morgan, Y. Ul'Haq, C.F. Maggi, S.K. Erents, W. Fundamenski, L.D. Horton, A. Loarte, G.F. Matthews, R.D. Monk and P.C. Stangeby 241–243 (1997) 426

Plasma Density Diagnostic

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner and R. Wolf 241–243 (1997) 135

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Experimental study of edge plasma structure in various discharges on compact helical system, T. Morisaki, A. Komori, R. Akiyama, H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima 241–243 (1997) 977

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Plasma Detachment

Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420

Plasma Disruptions

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Plasma Facing Components

DiMES divertor erosion experiments on DIII-D, D.G. Whyte, J.N. Brooks, C.P.C. Wong, W.P. West, R. Bastasz, W.R. Wampler and J. Rubenstein 241–243 (1997) 660

Plasma Flow

Direct measurement of divertor exhaust neon enrichment in DIII-D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Plasma Flow Diagnostic

Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782

The fluctuations and flow velocities measured with a mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Plasma Temperature Diagnostic

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner and R. Wolf 241–243 (1997) 135

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson,

Plasma Temperature Diagnostic (continued)

R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Plasma–Wall Interaction

Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink and U. Wenzel 241–243 (1997) 707

Chemical erosion of pyrolytic graphite by low-energy H^+ and D^+ impact, B.V. Mech, A.A. Haasz and J.W. Davis 241–243 (1997) 1147

Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot, Jr. 241–243 (1997) 1170

Plasma–Wall Interaction Simulator

Side radiation damage from ablated vapor following an ITER-scale disruption, A.E. Koniges, D.C. Eder, H.A. Scott, H. Würz and F. Kappler 241–243 (1997) 244

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

Arc jets for divertor component testing, J. Balboni, S.A. Cohen and T. Munsat 241–243 (1997) 483

Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031

Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041

Interaction of a high density neon plasma with graphite, C. Brosset, J. Bardon and E. Gauthier 241–243 (1997) 1093

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

Investigation of beryllium self-sputtering, M.I. Guseva, S.N. Korshunov, V.M. Gureev, Yu.V. Martinenko, V.E. Netnnoin and V.G. Stoljarova 241–243 (1997) 1117

Comparison of chemical sputtering yields for different graphites at high ion flux densities, H. Grote, W. Bohmeyer, H.-D. Reiner, T. Fuchs, P. Kornejew and J. Steinbrink 241–243 (1997) 1152

Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Uterberg 241–243 (1997) 1164

Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Poloidal Divertor

Particle exhaust in radiative divertor experiments, H.-S. Bosch, D. Coster, R. Dux, C. Fuchs, G. Haas, A. Herrmann, S. Hirsch, A. Kallenbach, J. Neuhauser, R. Schneider, J. Schweinzer and M. Weinlich 241–243 (1997) 82

Understanding the edge physics of divertor experiments by comparison of 2D edge code calculations and experimental measurements, A. Loarte 241–243 (1997) 118

Classical drifts in the tokamak sol and divertor: Models and experiment, A.V. Chankin 241–243 (1997) 199

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell 241–243 (1997) 379

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. Labombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002

Poloidal Divertor (continued)

Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175

Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618

Pumping and Fuelling

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici and P. Ladd 241–243 (1997) 1

Radial Electric Field

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

The fluctuations and flow velocities measured with a mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Radiation

Scaling of radiated power to plasma contarnination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853

Radiation Asymmetry

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller and R. Wolf 241–243 (1997) 950

Radiation Cooling

On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827

Radiation Diagnostic

Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414

Radiation Energy Sink

Impulity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer and M. Weinlich 241–243 (1997) 696

Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618

Radiation-enhanced Sublimation

Impurity release from low-Z materials under light particle bombardment, J.W. Davis and A.A. Haasz 241–243 (1997) 37

Radiation Symmetry

Radiative plasmas in TdeV, B. Terreault, N. Richard, J. Mailloux, G. Abel, C. Côté, E. Haddad, W. Zhang, C. Boucher, S. Chiu, J. Gunn, H.H. Mai, F. Meo, B.L. Stansfield and W.W. Zuzak 241–243 (1997) 755

Reflectometry

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

Reversed Field Pinch

Investigation of plasma facing components and vacuum vessel in RFX, P. Sonato, V. Antoni, M. Bagatin, W.R. Baker, S. Peruzzo, L. Tramontin, P. Zaccaria and G. Zollino 241–243 (1997) 982

Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988

Wall conditioning and particle control in extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998

Role of energetic particles in heat and particle exhaust in a poloidal divertor RFP, S. Masamune, M. Iida, N. Oda, M. Awazu, K. Fujitsuka, K. Ohta and H. Oshiyama 241–243 (1997) 1002

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

RF Heating

Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, P. Jaquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, M. Goniche, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

Plasma–surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511

Scaling Law

Experimental investigation of transport phenomena in the scrape-off layer and divertor, B. LaBombard, J.A. Goetz, I. Hutchinson, D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe 241–243 (1997) 149

Divertor scaling laws for tokamaks, P.J. Catto, D.A. Knoll, S.I. Krasheninnikov and J.W. Connor 241–243 (1997) 369

Scaling radiative plasmas to ITER, G.F. Matthews, S. Allen, N. Asakura, J. Goetz, H. Guo, A. Kallenbach, B. Lipschultz, K. McCormick, M. Stamp, U. Samm, P.C. Stangeby, K.-H. Steuer, A. Taroni, B. Unterberg and P. West 241–243 (1997) 450

Sheath Physics

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde and M. Weinlich 241–243 (1997) 722

Plasma–surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511

SiC

Thermal response for divertor mock-up using surface-modified CFC tile, L. Fujita, Y. Hirohata, T. Hino, T. Yamashina, Y. Kubota, N. Noda, O. Motojima, T. Sogabe, T. Matsudas and K. Kurodas 241–243 (1997) 1185

SOL Plasma

Experimental investigation of transport phenomena in the scrape-off layer and divertor, B. LaBombard, J.A. Goetz, I. Hutchinson, D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe 241–243 (1997) 149

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Classical drifts in the tokamak sol and divertor: Models and experiment, A.V. Chankin 241–243 (1997) 199

Stability of a radiative mantle in ITER, M.A. Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing, J. Hara, Y. Uesugi, Y. Miura and H. Kawashima 241–243 (1997) 338

Code–code comparisons of DIVIMP's 'onion-skin model' and the EDGE2D fluid code, P.C. Stangeby, J.D. Elder, W. Fundamenski, A. Loarte, L.D. Horton, R. Simonini, A. Taroni, O.F. Matthews and R.D. Monk 241–243 (1997) 358

Kinetic simulation of parallel transport and ELM propagation in the Alcator C-Mod tokamak, O.V. Batishchev, A.A. Batishcheva, P.J. Catto, S.I. Krasheninnikov, B. LaBombard, B. Lipschultz and D.J. Sigmar 241–243 (1997) 374

Derivation of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick,

SOL Plasma (continued)

A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

Investigation of electron parallel pressure balance in the scrape-off layer of deuterium-based radiative divertor discharges in DIII-D, T.W. Petrie, S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher, R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West 241–243 (1997) 639

Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann and M. Weinlich 241–243 (1997) 712

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, P. Jaquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, M. Goniche, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782

Time resolved observation of the erosion of boron containing protective coatings on wall elements of TEXTOR-94 by means of colorimetry, P. Wienhold, F. Weschenfelder, J. von Seggern, B. Emmoth, H.G. Esser, P. Karduck and J. Winter 241–243 (1997) 804

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

SOL parameters and local transport in the FTU tokamak, M. Leigheb, V. Pericoli Ridolfini and R. Zagórski 241–243 (1997) 914

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

The fluctuations and flow velocities measured with a mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Spatial Neutral Distribution

Spatial distributions of neutral atoms in the near-target plasma: Theory and experiment, D. Naujoks, J. Steinbrink and U. Wenzel 241–243 (1997) 707

Sputtering Measurements

Measurements and modeling of the angular-resolved sputtering yield of D-soaked Be by 100, 300, 500 and 700 eV D^+, D.N. Ruzic, P.C. Smith and R.B. Turkot, Jr. 241–243 (1997) 1170

Sputtering Yield

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

Steady-State Fusion

On the relation between radiation level, central impurity concentration and helium exhaust in a burning fusion plasma, U. Samm, M.Z. Tokar' and B. Unterberg 241–243 (1997) 827

Steady-State Regime

Heat exhaust control with active cooling in Tore-Supra: towards steady state operation, Ph. Chappuis 241–243 (1997) 27

Stellarator

Monte Carlo modelling of the transport in the stellarator periphery with magnetic islands, D. Naujoks, P. Bachmann, A. Runov and D. Sünder 241–243 (1997) 925

A 2D approach to island divertor modelling for Wendelstein 7-AS, G. Herre, R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigull and J. Kißlinger 241–243 (1997) 941

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller and R. Wolf 241–243 (1997) 950

Behavior of pellet injected Li into heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Yu. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Stochastic Boundary

Temperature profiles in stochastic boundaries, S. Féron and Ph. Ghendrih 241–243 (1997) 328

Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961

Experimental study of edge plasma structure in various discharges on compact helical system, T. Morisaki, A. Komori, R. Akiyama,

Stochastic Boundary (continued)

H. Idei, H. Iguchi, N. Inoue, Y. Kawai, S. Kubo, S. Masuzaki, K. Matsuoka, T. Minami, S. Morita, N. Noda, N. Ohyabu, S. Okamura, M. Osakabe, H. Suzuki, K. Tanaka, C. Takahashi, H. Yamada, I. Yamada and O. Motojima 241–243 (1997) 977

Surface Layer

Release of hydrogen from co-existing layers of carbon and beryllium with vacuum heating, K. Ashida, K. Watanabe and T. Okabe 241–243 (1997) 1060

Tandem Mirror

Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011

Technology

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

Tokamak

Helium transport and exhaust experiments in tokamaks, J. Hogan 241–243 (1997) 68

A review of ELMs in divertor tokamaks, D.N. Hill 241–243 (1997) 182

Stability of a radiative mantle in ITER, M.A. Mahdavi, G.M. Staebler, R.D. Wood, D.G. Whyte and W.P. West 241–243 (1997) 305

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell 241–243 (1997) 379

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Derivation of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick, A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444

Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538

Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574

Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi, L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602

Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606

Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

Effects of a rf limiter on TEXTOR's edge plasmas, J.A. Boedo, T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank and N. Noda 241–243 (1997) 857

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

SOL parameters and local transport in the FTU tokamak, M. Leigheb, V. Pericoli Ridolfini and R. Zagórski 241–243 (1997) 914

Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

The fluctuations and flow velocities measured with a mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

Transport and Confinement

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

Transverse Transport

Experimental investigation of transport phenomena in the scrape-off layer and divertor, B. LaBombard, J.A. Goetz, I. Hutchinson, D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe 241–243 (1997) 149

Temperature profiles in stochastic boundaries, S. Féron and Ph. Ghendrih 241–243 (1997) 328

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Derivation of SOL transport coefficients using 2D modelling for hot-ion ELM-free H-modes in JET, G.K. McCormick, A. Chankin, S. Clement, S. Davies, J. Ehrenberg, A. Loarte, R. Monk, R. Simonini, J. Spence, M. Stamp, A. Taroni and G. Vlases 241–243 (1997) 444

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde and M. Weinlich 241–243 (1997) 722

Tritium Inventory

A review of recent experiments on W and high Z materials as plasma-facing components in magnetic fusion devices, N. Noda, V. Philipps and R. Neu 241–243 (1997) 227

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Tritium Inventory and Economy

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amerescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Turbulence

Self-organized criticality in particle transport governed by ionization, Y. Sarazin and Ph. Ghendrih 241–243 (1997) 322

Theory of ion transport in the tokamak SOL, P. Helander, R.D. Hazeltine and P.J. Catto 241–243 (1997) 363

The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

Vaporization and Melting

Modeling and simulation of melt-layer erosion during a plasma disruption, A. Hassanein, V. Belan, I. Konkashbaev, L. Nikandrov, V. Safronov, A. Zhitlukhin and V. Litunovsky 241–243 (1997) 288

VUV Spectroscopy

Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas, U. Wenzel, A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek 241–243 (1997) 728

Wall Coating

Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.O. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031

Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127

Effect of irradiation ion species on internal stress in boron thin films, N. Satomi, K. Tanaka, M. Kitamura and M. Nishikawa 241–243 (1997) 1138

Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials, M. Nagatsu, N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura 241–243 (1997) 1180

Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Wall Conditioning

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amerescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538

Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

In-situ deposition of silicon on the leading edge of the ALT-II limiter in TEXTOR-94, G. Mank, J.A. Boedo, P. Wienhold, H.G. Esser, K.H. Finken, L. Könen, A. Pospieszczyk, J. Rapp, J. Schwelberger, F. Weschenfelder and J. Winter 241–243 (1997) 821

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder and J. Winter 241–243 (1997) 861

Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E.

Wall Conditioning (continued)

Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

Behavior of pellet injected Li into heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Yu. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

Wall conditioning and particle control in extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031

Effect of irradiation ion species on internal stress in boron thin films, N. Satomi, K. Tanaka, M. Kitamura and M. Nishikawa 241–243 (1997) 1138

Basic experiments on in-situ magnetized boronization by electron cyclotron resonance discharges, H. Kokura, K. Sasaki, H. Toyoda, T. Mizuuchi, K. Kondo, F. Sano, T. Obiki and H. Sugai 241–243 (1997) 1217

Wall Erosion

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici and P. Ladd 241–243 (1997) 1

Wall Impurity Trapping

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Interaction of energetic oxygen ions with lithium-containing amorphous hydrogenated carbon films: A mass spectrometry study, J.-U. Thiele, E. Vietzke and P. Oelhafen 241–243 (1997) 1127

Wall Particle Reflection

Reflection, re-emission and permeation of deuterium implanted in Ti–6Al–4V alloy, V. Bandourko, K. Ohkoshi, K. Yamaguchi and M. Yamawaki 241–243 (1997) 1071

Wall Particle Retention

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici and P. Ladd 241–243 (1997) 1

Hydrogen retention in plasma-facing materials and its consequences on tokamak operation, A.P. Zakharov, A.E. Gorodetsky, V.Kh. Alimov, S.L. Kanashenko and A.V. Markin 241–243 (1997) 52

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amerescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462

Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538

Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579

Wall Particle Retention (continued)

Direct measurement of divertor exhaust neon enrichment in DIII-D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

Measurements of tritium recycling and isotope exchange in TFTR, C.H. Skinner, J. Kamperschroer, D. Mueller, A. Nagy and D.P. Stotler 241–243 (1997) 887

Hydrogen retention properties of low Z and high Z plasma facing materials, Y. Yamauchi, T. Hino, K. Koyama, Y. Hirohata and T. Yamashina 241–243 (1997) 1016

Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026

Tritium retention in S-65 beryllium after 100 eV plasma exposure, R.A. Causey, G.R. Longhurst and W. Harbin 241–243 (1997) 1041

Depth distribution of deuterium atoms and molecules in beryllium implanted with D ions, V.Kh. Alimov, V.N. Chernikov and A.P. Zakharov 241–243 (1997) 1047

Hydrogen absorption behavior into boron films by glow discharges in hydrogen and helium, K. Tsuzuki, M. Natsir, N. Inoue, A. Sagara, N. Noda, O. Motojima, T. Mochizuki, T. Hino and T. Yamashina 241–243 (1997) 1055

Isotope effects in hydrogen retention of graphite and beryllium irradiated simultaneously with dual H^+ and D^+ beams, B. Tsuchiya and K. Morita 241–243 (1997) 1065

Deuterium retention in beryllium, molybdenum and tungsten at high fluences, A.A. Haasz and J.W. Davis 241–243 (1997) 1076

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Deuterium trapping in and release from tungsten carbide, W. Wang, V.Kh. Alimov, B.M.U. Scherzer and J. Roth 241–243 (1997) 1087

Helium retention properties of plasma facing materials, H. Yanagihara, Y. Yamauchi, T. Hino, Y. Hirohata and T. Yamashina 241–243 (1997) 1098

Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175

In-situ ion beam analysis and dynamic studies of deuterium retention in graphite exposed to a high flux magnetron plasma, B. Emmoth, H. Bergsåker and L. Ilyinsky 241–243 (1997) 1022

Wall Pumping

Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538

Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612

Comparison of wall/divertor deuterium retention and plasma fueling requirements on the DIII-D, TdeV and ASDEX Upgrade tokamaks, R. Maingi, B. Terreault, G. Haas, G.L. Jackson, W. Zuzak, P.K. Mioduszewski, M.A. Mahdavi, M.R. Wade, S. Chiu, M.J. Schaffer, J.T. Hogan and C.C. Klepper 241–243 (1997) 672

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder and J. Winter 241–243 (1997) 861

Mass spectroscopic measurements in the plasma edge of the W7-AS stellarator and their statistical analysis, P. Zebisch, P. Grigull, V. Dose and E. Taglauer 241–243 (1997) 919

Wall conditioning and particle control in extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

Laboratory experiments on hydrogen and impurity behaviors in lithium-deposited environment, H. Toyoda, M. Watanabe and H. Sugai 241–243 (1997) 1031

Hydrogen trapping in and release from tungsten: Modeling and comparison with graphite with regard to its use as fusion reactor material, P. Franzen, C. Garcia-Rosales, H. Plank and V.Kh. Alimov 241–243 (1997) 1082

Wall Structure

Reduction of the chemical erosion of doped graphite due to surface modification during low energy D^+ bombardment, R. Schwörer, H. Plank and J. Roth 241–243 (1997) 1156

Devices

ALCATOR C-MOD

Experimental investigation of transport phenomena in the scrape-off layer and divertor, B. LaBombard, J.A. Goetz, I. Hutchinson,

ALCATOR C-MOD (continued)

D. Jablonski, J. Kesner, C. Kurz, B. Lipschultz, G.M. McCracken, A. Niemczewski, J. Terry, A. Allen, R.L. Boivin, F. Bombarda, P. Bonoli, C. Christensen, C. Fiore, D. Garnier, S. Golovato, R. Granetz, M. Greenwald, S. Horne, A. Hubbard, J. Irby, D. Lo, D. Lumma, E. Marmar, M. May, A. Mazurenko, R. Nachtrieb, H. Ohkawa, P. O'Shea, M. Porkolab, J. Reardon, J. Rice, J. Rost, J. Schachter, J. Snipes, J. Sorci, P. Stek, Y. Takase, Y. Wang, R. Watterson, J. Weaver, B. Welch and S. Wolfe 241–243 (1997) 149

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Plasma–neutral gas interaction in a tokamak divertor: Effects of hydrogen molecules and plasma recombination, S.I. Krasheninnikov, A.Yu. Pigarov, T.K. Soboleva and D.J. Sigmar 241–243 (1997) 283

Screening of recycling and non-recycling impurities in the Alcator C-Mod tokamak, G.M. McCracken, R.S. Granetz, B. Lipschultz, B. LaBombard, F. Bombarda, J.A. Goetz, S. Lisgo, D. Jablonski, H. Ohkawa, J.E. Rice, P.C. Stangeby, J.L. Terry and Y. Wang 241–243 (1997) 777

Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak, D. Jablonski, B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby 241–243 (1997) 782

A comparison of impurity screening between limiter and divertor plasmas in the Alcator C-Mod tokamak, R.S. Granetz, G.M. McCracken, F. Bombarda, J.A. Goetz, D. Jablonski, B. Labombard, B. Lipschultz, H. Ohkawa, J.E. Rice, J.L. Terry and Y. Wang 241–243 (1997) 788

ASDEX-UPGRADE

Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628

The tungsten experiment in ASDEX Upgrade, R. Neu, K. Asmussen, S. Deschka, A. Thoma, M. Bessenrodt-Weberpals, R. Dux, W. Engelhardt, J.C. Fuchs, J. Gaffert, C. García-Rosales, A. Herrmann, K. Krieger, F. Mast, J. Roth, V. Rohde, M. Weinlich and U. Wenzel 241–243 (1997) 678

Study of gross and net erosion in the ASDEX Upgrade divertor, K. Krieger, J. Roth, A. Annen, W. Jacob, C.S. Pitcher, W. Schneider, A. Thoma and M. Weinlich 241–243 (1997) 684

B2-Eirene modelling of ASDEX Upgrade, D.P. Coster, R. Schneider, J. Neuhauser, H.-S. Bosch, R. Wunderlich, C. Fuchs, F. Mast, A. Kallenbach, R. Dux, G. Becker, B.J. Braams and D. Reiter 241–243 (1997) 690

Routes to divertor detachment in ASDEX Upgrade, C.S. Pitcher, A.W. Carlson, C. Fuchs, A. Herrmann, W. Suttrop, J. Schweinzer and M. Weinlich 241–243 (1997) 696

Divertor geometry optimization for ASDEX Upgrade, R. Schneider, H.S. Bosch, J. Neuhauser, D. Coster, K. Lackner and M. Kaufmann 241–243 (1997) 701

Direct measurement of the plasma potential in the edge of ASDEX Upgrade using a self emitting probe, V. Rohde, M. Laux, P. Bachmann, A. Herrmann and M. Weinlich 241–243 (1997) 712

Performance of the Ti doped graphite RG-Ti-91 at the divertor of the Tokamak ASDEX Upgrade, T. Burtseva, V. Barabash, I. Mazul, C. García-Rosales, S. Deschka, R. Behrisch and A. Herrmann 241–243 (1997) 716

The separation of angle and size effects on Langmuir characteristics, A. Carlson, V. Rohde and M. Weinlich 241–243 (1997) 722

Spatial radiation profiles in the ASDEX Upgrade divertor for detached plasmas, U. Wenzel, A. Thoma, R. Dux, Ch. Fuchs, A. Herrmann, St. Hirsch, A. Kallenbach, H. Kastelewicz, M. Laux, F. Mast and B. Napiontek 241–243 (1997) 728

Migration of tungsten eroded from divertor tiles in ASDEX Upgrade, K. Krieger, V. Rohde, R. Schwörer, K. Asmussen, C. García-Rosales, A. Herrmann, R. Neu, J. Roth, A. Thoma and M. Weinlich 241–243 (1997) 734

CHS

Local island divertor experiments on CHS, A. Komori, N. Ohyabu, S. Masuzaki, T. Morisaki, H. Suzuki, C. Takahashi, S. Sakakibara, K. Watanabe, T. Watanabe, T. Minami, S. Morita, K. Tanaka, S. Ohdachi, S. Kubo, N. Inoue, H. Yamada, K. Nishimura, S. Okamura, K. Matsuoka, O. Motojima, M. Fujiwara, A. Iiyoshi, C.C. Klepper, J.F. Lyon, A.C. England, D.E. Greenwood, D.K. Lee, D.R. Overbey, J.A. Rome, D.E. Schechter and C.T. Wilson 241–243 (1997) 967

COMPASS-D

ELM structure in the boundary plasma on COMPASS-D, S.J. Fielding, K.B. Axon, M.G. Booth, R.J. Buttery, J. Dowling, D. Gates, C. Hunt, C. Silva and M. Valovic 241–243 (1997) 902

DIII-D

Direct measurement of divertor exhaust neon enrichment in DIII-D, M.J. Schaffer, M.R. Wade, R. Maingi, P. Monier-Garbet, W.P. West, D.G. Whyte, R.D. Wood and M.A. Mahdavi 241–243 (1997) 585

Simulation of the scrape-off layer plasma during a disruption, T.D. Rognlien, J.A. Crotinger, G.D. Porter, G.R. Smith, A.G. Kellman and P.L. Taylor 241–243 (1997) 590

First measurements of electron temperature and density with divertor Thomson scattering in radiative divertor discharges on DIII-D, S.L. Allen, D.N. Hill, T.N. Carlstrom, D.G. Nilson, R. Stockdale, C.L. Hsieh, T.W. Petrie, A.W. Leonard, D. Ryutov, G.D. Porter, R. Maingi, M.R. Wade, R. Cohen, W. Nevins, M.E. Fenstermacher, R.D. Wood, C.J. Lasnier, W.P. West and M.D. Brown 241–243 (1997) 595

Modeling of the recycling particle flux and electron particle transport in the DIII-D Tokamak, D.R. Baker, R. Maingi,

DIII-D (continued)

L.W. Owen, G.D. Porter and G.L. Jackson 241–243 (1997) 602

Measurements of non-axisymmetric halo currents with and without 'killer' pellets during disruptions in the DIII-D tokamak, T.E. Evans, A.G. Kellman, D.A. Humphreys, M.J. Schaffer, P.L. Taylor, D.G. Whyte, T.C. Jernigan, A.W. Hyatt and R.L. Lee 241–243 (1997) 606

Core/divertor/wall particle dynamics in the DIII-D tokamak, J.T. Hogan, R. Maingi, P.K. Mioduszewski, Th. Hutter, C.C. Klepper and M.R. Wade 241–243 (1997) 612

Characteristics of the scrape-off layer in DIII-D high-performance negative central magnetic shear discharges, C.J. Lasnier, R. Maingi, A.W. Leonard, S.L. Allen, D.A. Buchenauer, K.H. Burrell, T.A. Casper, J.W. Cuthbertson, M.E. Fenstermacher, D.N. Hill, R.A. Jong, L.L. Lao, E.A. Lazarus, R.A. Moyer, T.W. Petrie, G.D. Porter, B.W. Rice, B.W. Stallard, T.S. Taylor and J.G. Watkins 241–243 (1997) 623

Divertor heat and particle flux due to ELMs in DIII-D and ASDEX-upgrade, A.W. Leonard, W. Suttrop, T.H. Osborne, T.E. Evans, D.N. Hill, A. Herrmann, C.J. Lasnier, D.N. Thomas, J.G. Watkins, W.P. West, M. Weinlich and H. Zohm 241–243 (1997) 628

The role of turbulent transport in DIII-D edge and divertor plasmas, R.A. Moyer, J.W. Cuthbertson, T.E. Evans, G.D. Porter and J.G. Watkins 241–243 (1997) 633

Investigation of electron parallel pressure balance in the scrape-off layer of deuterium-based radiative divertor discharges in DIII-D, T.W. Petrie, S.L. Allen, T.N. Carlstrom, D.N. Hill, R. Maingi, D. Nilson, M. Brown, D.A. Buchenauer, T.E. Evans, M.E. Fenstermacher, R.A. Jong, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, G.D. Porter, M.R. Wade and W.P. West 241–243 (1997) 639

Reciprocating and fixed probe measurements of n_e and T_e in the DIII-D divertor, J.G. Watkins, R.A. Moyer, J.W. Cuthbertson, D.A. Buchenauer, T.N. Carlstrom, D.N. Hill and M. Ulrickson 241–243 (1997) 645

Characterization of energetic deuterium striking the divertor of the DIII-D tokamak, R. Bastasz, W.R. Wampler, J.A. Whaley, D.G. Whyte, P.B. Parks, N.H. Brooks, W.P. West and C.P.C. Wong 241–243 (1997) 650

Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning, G.L. Jackson, E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West 241–243 (1997) 655

Comprehensive 2D measurements of radiative divertor plasmas in DIII-D, M.E. Fenstermacher, R.D. Wood, S.L. Allen, N.H. Brooks, D.A. Buchenauer, T.N. Carlstrom, J.W. Cuthbertson, E.J. Doyle, T.E. Evans, P.-M. Garbet, R.W. Harvey, D.N. Hill, A.W. Hyatt, R.C. Isler, G. Jackson, R.A. James, R. Jong, C.C. Klepper, C.J. Lasnier, A.W. Leonard, M.A. Mahdavi, R. Maingi, W.H. Meyer, R.A. Moyer, D.U. Nilson, T.W. Petrie, G.D. Porter, T.L. Rhodes, M.J. Schaffer, R.D. Stambaugh, D.M. Thomas, S. Tugarjnov, M.R. Wade, J.G. Watkins, W.P. West and D.G. Whyte 241–243 (1997) 666

Impurity feedback control for enhanced divertor and edge radiation in DIII-D discharges, G.L. Jackson, G.M. Staebler, S.L. Allen, N.H. Brooks, T.E. Evans, J.R. Ferron, A.W. Leonard, R. Maingi, T.W. Petrie, M.J. Schaffer, R.D. Wood, W.P. West and D.G. Whyte 241–243 (1997) 618

EXTRAP-T2

Wall conditioning and particle control in extrap T2, H. Bergsåker, D. Larsson, P. Brunsell, A. Möller and L. Tramontin 241–243 (1997) 993

FTU

Behaviour of a tungsten coated molybdenum poloidal limiter in FTU tokamak, G. Maddaluno, F. Pierdominici and M. Vittori 241–243 (1997) 908

SOL parameters and local transport in the FTU tokamak, M. Leigheb, V. Pericoli Ridolfini and R. Zagórski 241–243 (1997) 914

GAMMA 10

Behavior of neutral-hydrogen and particle confinement on GAMMA 10 tandem mirror plasmas, Y. Nakashima, M. Shoji, K. Yatsu, S. Kobayashi, K. Tsuchiya, N. Yamaguchi, M. Yoshikawa, T. Aota, T. Ishijima, M. Ichimura, M. Inutake, A. Mase and T. Tamano 241–243 (1997) 1011

Heliotron E

Field line measurements in the divertor of Heliotron-E under boronized conditions, F. Sano, T. Mizuuchi, T. Hamada, H. Funaba, M. Nakasuga, K. Kondo, H. Zushi, S. Besshou, H. Okada, K. Hanatani, K. Nagasaki and T. Obiki 241–243 (1997) 961

Behavior of pellet injected Li into heliotron E plasmas, K. Kondo, K. Ida, C. Christou, V.Yu. Sergeev, K.V. Khlopenkov, S. Sudo, F. Sano, H. Zushi, T. Mizuuchi, S. Besshou, H. Okada, K. Nagasaki, K. Sakamoto, Y. Kurimoto, H. Funaba, T. Hamada, T. Kinoshita, S. Kado, Y. Kanda, T. Okamoto, M. Wakatani and T. Obiki 241–243 (1997) 956

HL-1M

Study of helium transport in HL-1M edge plasma region, L.L. Peng, B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian 241–243 (1997) 883

The fluctuations and flow velocities measured with a mach probe array on the HL-1M tokamak, W.Y. Hong, E.Y. Wang, L.B. Ran, S.K. Yang, Y.D. Pan, L.Y. Chen and S.J. Qian 241–243 (1997) 1234

HT-6M

Effects of high Z probe on plasma behavior in HT-6M tokamak, J. Li, X. Gong, L. Luo, F.X. Yin, N. Noda, B. Wan, W. Xu, X. Gao, F. Yin, J.G. Jiang, Z. Wu, J.Y. Zhao, M. Wu, S. Liu and Y. Han 241–243 (1997) 878

ICRF

Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553

ITER

Plasma–wall interactions in ITER, R. Parker, G. Janeschitz, H.D. Pacher, D. Post, S. Chiocchio, G. Federici and P. Ladd 241–243 (1997) 1

Erosion lifetime of iter divertor plates, H.D. Pacher, I. Smid, G. Federici, Yu. Igitkhanov, G. Janeschitz, R. Raffray and G. Vieider 241–243 (1997) 255

The influence of key operation parameters and material properties on the quantification of tritium inventory and permeation in the plasma facing components of ITER, G. Federici, D. Holland, G. Janeschitz and C.H. Wu 241–243 (1997) 260

2D modelling of radiating divertor regime for ITER, A. Kukushkin, H.D. Pacher, M. Baelmans, D. Coster, G. Janeschitz, D. Reiter and R. Schneider 241–243 (1997) 268

Simulation of plasma flux detachment in Alcator C-Mod and ITER, F. Wising, S.I. Krasheninnikov, D.J. Sigmar, D.A. Knoll, T.D. Rognlien, B. LaBombard, B. Lipschultz and G. McCracken 241–243 (1997) 273

Assessment of erosion and surface tritium inventory issues for the ITER divertor, J.N. Brooks, R. Causey, G. Federici and D.N. Ruzic 241–243 (1997) 294

Modelling of transition from attached to detached state and self-consistent calculations of He levels in ITER, M. Sugihara, T. Amano, D. Boucher, Y. Igitkhanov, G. Janeschitz, H.D. Pacher, D. Post and P. Yushmanov 241–243 (1997) 299

Lightly- or non-seeded, partially detached ITER divertor operation, G. Vlases, G. Corrigan and A. Taroni 241–243 (1997) 310

Impulity fueling to terminate Tokamak discharges, S. Putvinski, N. Fujisawa, D. Post, N. Putvinskaya, M.N. Rosenbluth and J. Wesley 241–243 (1997) 316

Non-linear effects on neutral gas transport in divertors, D. Reiter, Chr. May, M. Baelmans and P. Börner 241–243 (1997) 342

JET

Study of recombining gas targets, K. Borrass, D. Coster, D. Reiter and R. Schneider 241–243 (1997) 250

Experimental comparison of carbon and beryllium as divertor target materials in JET, D.J. Campbell 241–243 (1997) 379

Erosion/redeposition at the JET MkI divertor, H.Y. Guo, J.P. Coad, S.J. Davies, J.D. Elder, L.D. Horton, X.L. Li, J. Lingertat, A. Loarte, G.F. Matthews, R.D. Monk, R. Simonini, M.F. Stamp, P.C. Stangeby and A. Tabasso 241–243 (1997) 385

Edge density profiles in high-performance JET plasmas, D.D.R. Summers, P. Breger, K. Erents, Z.A. Pietrzyk, B. Viaccoz and J. Vince 241–243 (1997) 391

Interpretation of ion flux and electron temperature profiles at the JET divertor target during high recycling and detached discharges, R.D. Monk, A. Loarte, A. Chankin, S. Clement, S.J. Davies, J.K. Ehrenberg, H.Y. Guo, J. Lingertat, O.F. Matthews, M.F. Stamp and P.C. Stangeby 241–243 (1997) 396

Studies of giant ELM interaction with the divertor target in JET, J. Lingertat, A. Tabasso, S. Ali-Arshad, B. Alper, P. van Belle, K. Borrass, S. Clement, J.P. Coad and R. Monk 241–243 (1997) 402

The amount and distribution of deuterium retained in the jet divertor after the C and Be phases in 1994–1995, J.P. Coad, M. Rubel and C.H. Wu 241–243 (1997) 408

Measurement and analysis of radiated power components in the JET MkI divertor using VUV spectroscopy, C.F. Maggi, J.D. Elder, W. Fundamenski, R. Giannella, L.D. Horton, K.D. Lawson, A. Loarte, A. Maas, R. Reichle, M. Stamp, P.C. Stangeby and H.P. Summers 241–243 (1997) 414

Neutral particle retention in the JET MK I divertor, J.K. Ehrenberg, D.J. Campbell, P.J. Harbour, L.D. Horton, A. Loarte, G.K. McCormick, R.D. Monk, G.R. Saibene, R. Simonini, A. Taroni and M.F. Stamp 241–243 (1997) 420

Assessment of the DIVIMP 'onion-skin' model in the JET Mark I divertor, S.K. Erents, P. Breger, S.J. Davies, J.D. Elder, H.Y. Guo, L.D. Horton, G.F. Matthews, R.D. Monk, P.C. Stangeby and D.D.R. Summers 241–243 (1997) 433

Divertor configuration studies on JET, C.G. Lowry, D.J. Campbell, S. Davies, H. Guo, P.J. Harbour, M. von Hellermann, L.D. Horton, A. Loarte, C. Maggi, G. Matthews, R. Mohanti, R. Monk, G.J. Radford, R. Reichle, G. Saibene, J. Spence, M. Stamp, A. Taroni and G.C. Vlases 241–243 (1997) 438

Low energy neutral particle fluxes in the JET divertor, R. Reichle, J.K. Ehrenberg, N.A.C. Gottardi, L.D. Horton, L.C. Ingesson, H.J. Jäckel, G.K. McCormick, A. Loarte, R. Simonini and M.F. Stamp 241–243 (1997) 456

Behaviour of hydrogen in JET deuterium plasmas, K. Günther, G. Bracco, R. König, M.F. Stamp and K.-D. Zastrow 241–243 (1997) 462

Erosion at the vessel walls of JET, M. Mayer, R. Behrisch, P. Andrew and A.T. Peacock 241–243 (1997) 469

Influence of active pumping on density and confinement behaviour of JET plasmas, G. Saibene, D. Campbell, L.D. Horton, A. Loarte, R.D. Monk, E. Righi and D. Stork 241–243 (1997) 476

JFT-2M

Scrape-off layer broadening by the $E \times B$ convective cell induced by non-axisymmetric divertor biasing, J. Hara, Y. Uesugi, Y. Miura and H. Kawashima 241–243 (1997) 338

Low-energetic He-atom beam as a diagnostic probe for electric field measurement in the plasma edges, K. Takiyama, T. Katsuta, H. Toyota, M. Watanabe, K. Mizuno, T. Ogawa and T. Oda 241–243 (1997) 1222

JT-60U

SOL plasma profiles under radiative and detached divertor conditions in JT-60U, N. Asakura, Y. Koide, K. Itami, N. Hosogane, K. Shimizu, S. Tsuji-Iio, S. Sakurai and A. Sakasai 241–243 (1997) 559

JT-60U (continued)

Investigation of interaction between MeV-ions and first wall from neutron and γ-ray measurements in JT-60U, T. Kondoh, Y. Kusama, H. Kimura, M. Saigusa, T. Fujii, S. Moriyama, M. Nemoto, K. Tobita, A. Morioka, K. Nagashima and T. Nishitani 241–243 (1997) 564

Effects of edge and central fuelling on particle confinement in JT-60U, H. Takenaga, N. Asakura, K. Shimizu, K. Nagashima, H. Kubo and A. Sakasai 241–243 (1997) 569

Study of carbon impurity generation by chemical sputtering in JT-60U, S. Higashijima, H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga 241–243 (1997) 574

Properties of thin boron coatings formed during deuterated-boronization in JT-60, J. Yagyu, N. Ogiwara, M. Saidoh, J. von Seggern, T. Okabe, Y. Miyo, H. Hiratsuka, S. Yamamoto, P. Goppelt-Langer, Y. Aoki, H. Takeshita and H. Naramoto 241–243 (1997) 579

Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour, R. Jimbou, K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya 241–243 (1997) 1175

LHD

Real time boronization experiments in CHS and scaling for LHD, A. Sagara, Y. Hasegawa, K. Tsuzuki, N. Inoue, H. Suzuki, T. Morisaki, N. Noda, O. Motojima, S. Okamura, K. Matsuoka, R. Akiyama, K. Ida, H. Idei, K. Iwasaki, S. Kubo, T. Minami, S. Morita, K. Narihara, T. Ozaki, K. Sato, C. Takahashi, K. Tanaka, K. Toi and I. Yamada 241–243 (1997) 972

NAGDIS-I

Impurity generation for low energy range of ion bombardment and its transport in a plasma, M. Kojima and S. Takamura 241–243 (1997) 1248

PISCES-B

Erosion behavior and surface characterization of beryllium under high-flux deuterium plasma bombardment, J. Won, F.E. Spada, R. Boivin, R. Doerner, S. Luckhardt, F.C. Sze and R.W. Conn 241–243 (1997) 1110

RFX

Investigation of plasma facing components and vacuum vessel in RFX, P. Sonato, V. Antoni, M. Bagatin, W.R. Baker, S. Peruzzo, L. Tramontin, P. Zaccaria and G. Zollino 241–243 (1997) 982

Locked modes induced plasma–wall interactions in RFX, M. Valisa, T. Bolzonella, L. Carraro, E. Casarotto, S. Costa, L. Garzotti, P. Innocente, S. Martini, R. Pasqualotto, M.E. Puiatti, R. Pugno and P. Scarin 241–243 (1997) 988

STP-3M

Behavior of edge plasma in STP-3M reversed field pinch, A. Matsuoka, H. Kajikawa, Y. Suzuki, H. Arimoto, A. Nagata, K. Aoto, M. Sugawara and K.I. Sato 241–243 (1997) 998

SWIP-RFP

The first results of siliconization on SWIP-RFP device, Z. Peng, L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian 241–243 (1997) 1008

TCV

Divertor target profiles and recycling studies in TCV single null lower standard discharges, R.A. Pitts, Ch. Nieswand, H. Weisen, M. Anton, R. Behn, R.F. Chavan, M.J. Dutch, B.P. Duval, S. Franke, F. Hofmann, B. Joye, J.B. Lister, X. Llobet, Y. Martin, J.-M. Moret, J. Petrzilka, Z.A. Pietrzyk, V. Piffl, P. Reinke, M.E. Rensink, G.R. Smith and W. van Toledo 241–243 (1997) 867

TdeV

Controlled detachment and particle transport in the divertor plasma in TdeV, B.L. Stansfield, F. Meo, G. Abel, C. Boucher, J.-L. Gauvreau, J.P. Gunn, E. Haddad, J.-L. Lachambre, J. Mailloux, R. Marchand, G. Ratel, N. Richard, M.M. Shoucri, B. Terreault, S. Beaudry, R. Décoste, G.W. Pacher, W. Zuzak, J.D. Elder and P.C. Stangeby 241–243 (1997) 739

Strong toroidal asymmetries in power deposition on divertor and first wall components during LHCD on TdeV and Tore Supra, J. Mailloux, Y. Demers, V. Fuchs, P. Jaquet, C. Boucher, A. Côté, C. Côté, J. Gunn, B. Terreault, M. Goniche, P. Bibet, P. Froissard, D. Guilhem, J.H. Harris, G. Rey and M. Tareb 241–243 (1997) 745

High heat load testing of plasma sprayed W coatings, M. Urquiaga Valdes, R.O. Saint-Jacques, J.-F. Côté and C. Moreau 241–243 (1997) 750

Retention of Ne and N_2 in the closed and pumped TdeV divertor with attached and detached plasmas, N. Richard, B. Terreault, E. Haddad, J. Gunn, G. Abel, S. Chiu, J.-L. Gauvreau, H.H. Mai and W.W. Zuzak 241–243 (1997) 760

Use of a quartz microbalance for plasma–wall interaction studies, D. Bourgoin, G.G. Ross, S. Savoie, Y. Drolet and E. Haddad 241–243 (1997) 765

TEXTOR

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92

Impurity release and deposition processes close to limiter surfaces in TEXTOR-94, V. Philipps, A. Pospieszczyk, H.G. Esser, U. Kögler, G. Mank, U. Samm, B. Schweer, J. von Seggern, B. Unterberg, E. Vietzke, F. Weschenfelder, P. Wienhold and J. Winter 241–243 (1997) 105

Impurity release from high *Z* test limiters immersed in TEXTOR-94 edge plasmas, M. Wada, V. Philipps, A. Pospieszczyk, B. Unterberg, B. Schweer, L. Koenen,

TEXTOR (continued)

U. Koegler, M. Tokar, J. Winter, K. Ohya, Y. Ueda, T. Tanabe and D. Larsson 241–243 (1997) 799

Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR, K. Höthker, W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants 241–243 (1997) 839

Exposure of CFC-materials to high transient heat loads in the TEXTOR tokamak, T. Scholz, J. Boedo, H. Bolt, R. Duwe, K.H. Finken, D. Gray and A. Hassanein 241–243 (1997) 848

Effects of a rf limiter on TEXTOR's edge plasmas, J.A. Boedo, T. Shoji, Y. Sakawa, D.S. Gray, J.G. Schwelberger, R.W. Conn, K.H. Finken, G. Mank and N. Noda 241–243 (1997) 857

ICRF wall conditioning at TEXTOR-94 in the presence of a 2.25 T magnetic field, H.G. Esser, A. Lyssoivan, M. Freisinger, R. Koch, G. Van Oost, F. Weschenfelder and J. Winter 241–243 (1997) 861

Ion-induced release of deuterium from co-deposits by high energy helium bombardment, M. Rubel, H. Bergsåker and P. Wienhold 241–243 (1997) 1026

Examination of material performance of W exposed to high heat load: Postmortem analysis of W exposed to TEXTOR plasma and E-beam test stand, T. Tanabe, V. Philipps, K. Nakamura, M. Fujine, Y. Ueda, M. Wada, B. Schweer, A. Pospieszczyk and B. Uterberg 241–243 (1997) 1164

TEXTOR-94

Experimental studies of the link between production and penetration of impurity atoms into the plasma edge and the central impurity content in TEXTOR-94, B. Unterberg, H. Knauf, P. Lindner, V. Philipps, A. Pospieszczyk, D. Pusbüldt, U. Samm, B. Schweer, M. Rubel, T. Tanabe, Y. Ueda and M. Wada 241–243 (1997) 793

Studies on plasma edge transport and layer deposition by local injection of reactive gases during TEXTOR-94 discharges, U. Kögler, F. Weschenfelder, J. Winter, H.G. Esser, V. Philipps, A. Pospieszczyk, B. Schweer, J. von Seggern, M.Z. Tokar' and P. Wienhold 241–243 (1997) 816

Chemical erosion measurements from various carbon based limiters and coatings in TEXTOR-94, A. Pospieszczyk, V. Philipps, E. Casarotto, U. Kögler, B. Schweer, B. Unterberg and F. Weschenfelder 241–243 (1997) 833

Radial profiles of atomic deuterium measured in the boundary of TEXTOR 94 with laser-induced fluorescence, Ph. Mertens and M. Silz 241–243 (1997) 842

Scaling of radiated power to plasma contarnination for neon seeded discharges on boronized TEXTOR-94, G. Telesca, H.A. Claassen, P. Franz, A.M. Messiaen, J. Ongena, J. Rapp, U. Samm, N. Schoon, B. Schweer, M.Z. Tokar', B. Unterberg and G. Van Oost 241–243 (1997) 853

TFTR

Plasma wall interaction and tritium retention in TFTR, C.H. Skinner, E. Amerescu, G. Ascione, W. Blanchard, C.W. Barnes, S.H. Batha, M. Beer, M.G. Bell, R. Bell, M. Bitter, N.L. Bretz, R. Budny, C.E. Bush, R. Camp, M. Casey, J. Collins, M. Cropper, Z. Chang, D.S. Darrow, H.H. Duong, R. Durst, P.C. Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

Core V_ϕ and T_i profiles and transport in TFTR DD and DT plasmas with lithium conditioning, C.E. Bush, R.E. Bell, B. LeBlanc, D.K. Mansfield, E.J. Synakowski, R.V. Budny, K.W. Hill, W. Houlberg, E. Mazzucato, P. Mioduszewski, H. Park, C.H. Skinner and M.C. Zarnstorff 241–243 (1997) 892

Tritium removal from TFTR, D. Mueller, W. Blanchard, J. Collins, J. Hosea, J. Kamperschroer, P.H. LaMarche, A. Nagy, D.K. Owens and C.H. Skinner 241–243 (1997) 897

T-10

Radial distributions and poloidal asymmetries of T-10 sol parameters and turbulence, V.A. Vershkov, S.A. Grashin, V.V. Dreval, V.V. Piterskii, S.V. Soldatov and A.N. Jakovets 241–243 (1997) 873

TJ-IU

Testing of a pulsed He supersonic beam for plasma edge diagnostic in the TJ-IU torsatron, F.L. Tabarés, D. Tafalla, V. Herrero and I. Tanarro 241–243 (1997) 1228

Tolev

Effects of lithium-implantation on the hydrogen retention in both a-C:H and a-SiC:H materials submitted to deuterium bombardment, G. Barbier, G.G. Ross, M.A. El Khakani, N. Chevarier and A. Chevarier 241–243 (1997) 1036

TORE SUPRA

Radiative edge layers in limiter tokamaks, P. Monier-Garbet 241–243 (1997) 92

Throat and vented pump limiters particle collection experiments with auxiliary heating in Tore Supra, B. Pégourié, T. Loarer, E. Tsitrone and G. Granata 241–243 (1997) 494

Modeling of neutral pressure and pumping in the Tore Supra ergodic divertor and outboard pump limiter, L.W. Owen, T. Loarer,

TORE SUPRA (continued)

A. Grosman, B. Meslin, C.C. Klepper, P.K. Mioduszewski and T. Uckan 241–243 (1997) 499

Particle balance modelling in ergodic divertor experiments on Tore Supra, T. Loarer, B. Meslin, Ph. Ghendrih, C. Grisolia and A. Grosman 241–243 (1997) 505

Calculation of power deposition patterns on the ergodic divertor, Ph. Ghendrih and A. Grosman 241–243 (1997) 517

Runaway electron damage to the Tore Supra Phase III outboard pump limiter, R. Nygren, T. Lutz, D. Walsh, G. Martin, M. Chatelier, T. Loarer and D. Guilhem 241–243 (1997) 522

Effect of magnetic field stochastization on impurity behavior in a tokamak, M.Z. Tokar', H. Lasaar, W. Mandl, W.R. Hess, C. De Michelis, A. Grosman and U. Samm 241–243 (1997) 528

Power and particle flux to the neutraliser plates of the Tore Supra ergodic divertor modules, A. Grosman, Ph. Ghendrih, B. Meslin and D. Guilhem 241–243 (1997) 532

Analysis of wall particle content with premagnetization plasmas, C. Grisolia, Ph. Ghendrih, G. Martin and D. Van Houtte 241–243 (1997) 538

Long pulse operation with actively cooled limiters, D. Guilhem, J. Hogan, D. Van Houtte, M. Lipa, T. Loarer, P. Chappuis, T. Hoang, J. Schlosser and R. Mitteau 241–243 (1997) 542

Edge MHD activity in the ergodic divertor configuration of Tore Supra, S. Turlur, E. Joffrin, M. Zabiégo, Ph. Ghendrih and A. Grosman 241–243 (1997) 548

Wall conditioning technique development in Tore Supra with permanent magnetic field by ICRF wave injection, E. Gauthier, E. de la Cal, B. Beaumont, A. Becoulet, C. Gil, C. Grisolia, A. Grosman, T. Hutter, H. Kuus, L. Ladurelle and J.L. Segui 241–243 (1997) 553

Plasma–surface interactions with ICRF antennas and lower hybrid grills in Tore Supra, J.H. Harris, T. Hutter, J.T. Hogan, V. Basiuk, B. Beaumont, A. Becoulet, S. Bremond, M.D. Carter, M. Goniche, R.H. Goulding, D. Guilhem, G.R. Haste, D.J. Hoffman, X. Litaudon and F. Nguyen 241–243 (1997) 511

Torsatron

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

TPD-II

A double electron capture by alpha particles in collisions with hydrogen molecules in low temperature plasma, T. Oda, K. Sato, S. Namba, S. Kusakabe, K. Takahara, H. Tawara, T. Katsuta, K. Takiyama and U. Furukane 241–243 (1997) 1238

Uragan-3M

On the use of biased movable B_4C-limiter for pumping O_2 and H_2O during discharge cleaning, G.P. Glazunov, E.D. Volkov, V.G. Kotenko, A.V. Shtan', Yu.K. Mironov, N.I. Nasarov, A. Sagara, N. Ohyabu and O. Motojima 241–243 (1997) 1052

W7-AS

Island divertor studies on W7-AS, F. Sardei, Y. Feng, P. Grigull, G. Herre, D. Hildebrandt, J.V. Hofmann, J. Kisslinger, R. Brakel, J. Das, J. Geiger, O. Heinrich, G. Kühner, H. Niedermeyer, D. Reiter, M. Richter-Glötzl, A. Runov, R. Schneider, U. Stroth, H. Verbeek, F. Wagner and R. Wolf 241–243 (1997) 135

A 3D Monte Carlo code for plasma transport in island divertors, Y. Feng, F. Sardei, J. Kisslinger and P. Grigull 241–243 (1997) 930

Experimental study on highly collisional edge plasmas in W7-AS island divertor configurations, P. Grigull, D. Hildebrandt, F. Sardei, Y. Feng, G. Herre, A. Herrmann, J.V. Hofmann, J. Kisslinger, G. Kuehner, H. Niedermeyer, R. Schneider, H. Verbeek, F. Wagner, R. Wolf and X.D. Zhang 241–243 (1997) 935

A 2D approach to island divertor modelling for Wendelstein 7-AS, G. Herre, R. Schneider, D. Coster, F. Sardei, D. Reiter, P. Grigrull and J. Kißlinger 241–243 (1997) 941

Plasma response on impurity injection in W7-AS, D. Hildebrandt, R. Brakel, A. Elsner, P. Grigull, H. Hacker, R. Burhenn, S. Fiedler, L. Giannone, C. Görner, H.J. Hartfuß, G. Herre, A. Herrmann, J.V. Hofmann, G. Kühner, D. Naujoks, F. Sardei, A. Weller and R. Wolf 241–243 (1997) 950

W7-X

Boundary modelling of the stellarator Wendelstein 7-X, H. Renner, E. Strumberger, J. Kisslinger, J. Nührenberg and H. Wobig 241–243 (1997) 946